University of Novi Sad

Faculty of Medicine

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Integrated Academic Studies in Dentistry
Study Plan 2009

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

Structure of the study program
Integrated studies of dentistry, which gain the academic title of Doctor of Dentistry, last 5 years and 10 semesters and include 4290 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 4440 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.
У РЕЂЕ
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 прописаних 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

ПРЕДСЕДНИК

Проф. др Вера Вујчић
### CURRICULUM 2009-2010
Integrated Academic Studies in Dentistry

#### I-year of study

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**Total**

Active teaching: 435
ECTS: 870

Condition: 60,0
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<p>| Total | Active teaching | 375 | 465 | 840 | 60,0 |</p>
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L – Lectures
P – Practical classes
IA – Individual activities
*Number of ECTS assigned to Final – Graduation Paper according to Statute of UNS
1. (St-In-Ant) ANATOMY

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Methods of conducting teaching Lectures and exercises

- **Goal**: 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 from 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, pathohystology, 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 things 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 shoots. Knowing anatomic 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 miology, general angiology, general neurology
2. Bones, joints, muscles, blood vassals, lymphatic and nerves of upper limbs; monographic regions of upper limbs.
3. Bones, joints, muscles, blood vassals, lymphatic and nerves of lower limbs; monographic regions of lower limbs.
4. Spine
5. Chest walls: division and content of chest (lungs, heart, oesophagus, blood vassals, lymphatics and nerves )
6. Stomach walls: division and content of stomach
7. Walls of pelvis, content of pelvic cavity, male and female sex organs, bladder and rectum
8. Skull and face bones, craniofacial cavities, joints, muscles, blood vassals, lymphatics 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 vassals of central nervous system

### Practical lectures – methodical units

1. Bones, joints, muscles, blood vassals, lymphatics and nerves of upper extremity
2. Bones, joints, muscles, blood vassals, lymphatics and nerves of lower limbs; monographic regions of lower extremity.
3. Spine
4. Chest walls: division and content of chest (lungs, heart, oesophagus, blood vassals, 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 vassals, 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 vassals, blood vassals of the central nervous system
Recommended Readings

Compulsory

Additional
8. Toldt Hochstetter. Anatomischer Atlas (različita izdanja)
10. Kiss-Szentágothai. Anatomski atlas čovjekova tjela (različita izdanja)
11. Netter FH. Atlas anatomije čoveka (različita izdanja)
12. Sinelšnikov RD. Atlas anatomii čeloveka (različita izdanja)

Evaluation of students' work – No. of points per individual activity

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<th>Pre-exam obligations</th>
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List of teachers and professors

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1. Professor, PhD Danica Obradović
2. Professor, PhD Rđmila Gudović
3. Professor, PhD Marija Mihalj
4. Professor, PhD Ljilja Mijatov-Ukropina
5. Professor, PhD Nada Mihić
6. Professor, PhD Ljubica Stojšić-Cunja
7. PhD Siniša Babović
8. PhD Dragan Krivokuča
9. Assistant Master Dušica Marić
10. Assistant Master Biljana Šrdić
11. Assistant Master Mirela Erčić
12. DR Bojana Krstonošić, Associate u nastavi
13. DrSaša Mijatov, Asst. u izboru
14. Dr Slobodanka Pena, student dok. studija

Chief of department

Professor doctor Ljilja Mijatov Ukropina
2. (StI-DANT) DENTAL ANATOMY

<table>
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Methods of conducting teaching  Lectures and exercises

**Goal**
Getting to know morphology of orofacial complex

**Purpose**
Acquiring knowledge about morphology of skeleton orofacial complex, muscles of this region, the way teeth are organized and morphology of permanent teeth

Skills
Drawing and modelling in paraffine morphological models of teeth representing permanent teeth

**CONTENT OF SUBJECT**

**Theoretical lectures** – methodical units

- Nodule-ridge complex and complex of depressions on occlusal surfaces of teeth.
- Primary dentition. Attributes of humane dentition. Attributes of class, type and dental arch of milk incisors, canine and molars.

**Practical teaching** – methodical units
Introductory lesson: Anatomy of teeth cavity-demonstrative lesson.

Test.

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<th>Evaluation of students’ work – No. of points per individual activity</th>
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<td>Pre-exam obligations</td>
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<tr>
<td>Associate</td>
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<tr>
<td>1</td>
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<tr>
<td>1. Prof. dr Dubravka Marković</td>
</tr>
<tr>
<td>3. Dr Danijela Durović – Associate u nastavi</td>
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</table>

Head of the department
Prof. dr Dubravka Marković, ensuring
3. (StI-HI/EM) HISTOLOGY AND EMBRIOLOGY

| PROGRAMME | Integrated studies of dentistry |
| DEPARTMENT | Department for histology and embryology |
| NAME OF SUBJECT | HISTOLOGY AND EMBRIOLOGY |
| STATUS OF THE SUBJECT | Compulsory |
| Condition: | none |

### Year of studies

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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. Ultrastructural 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 preembryonal, embryonal and fetal development of a person.
  5. Hystological elements connected to some organs relevant for evaluating age of fetus.

#### Skills

- Student has to be able to recognize through using electronic microscope all cell organelles and to recognize on the level of light microscopy 4 basic types of tissues and changes on them, all organs that they were taught about during lessons, to describe and recognize on graphs and photos phases in development of fetus, to be able to recognize the age of fetus and to notice all changes in organs and organic 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. Fertilising, navel cord and placent, preembryos, embryos and fetus development of tissues. Development of all body organs and systems and disorders in their development and significance for surviving.

#### Practical teaching — methodical units

1. Cells and cell organelles on ultrastructural level — microphotography.
2. Epithelial tissue
3. Histological structure of heart, arteries, thymus, capillary vein, lymph knots, 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 hipophise glands, organs of senses skin and derivate of skin, bone and joint structure.
4. Histological structure of embrionyc and fetus tissues, navel cord, placent and development of tissues and body organs.

### RECOMMENDED READING

- Compulsory
Evaluation of students’ work – No. of points per individual activity

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<td>1. Prof dr Ljiljana Somer</td>
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<td>7. Dr Tamara Lukić, Associate u nastavi</td>
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<td>3. Doc. dr Matilda Đolai</td>
<td>8. Dr Golub Samardžija, Associate u nastavi</td>
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Chief of the department
Prof. dr Ljiljana Somer
## 4. (StI-HUGE) HUMAN GENETICS

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### Methods of conducting teaching

- Lectures and exercises

### Purpose

The purpose of this subject is to teach students everything about human genome as well as genetic mechanisms of hereditary diseases. Students will be able to use different sources of information and learn about technological achievements in exploration of human genome. They will also learn about transferring genetic information.

### Knowledge

Students will be able to use basic genetic notions, learn about structure of chromatine, organisation of chromosome. They will apply Mendel's laws and understand gene interactions. They will be able to predict mechanisms of inheriting and be able to precisely construct family trees based on the given data. They will understand mechanisms of mutation and DNA reparation. They will understand basic techniques of molecular genetics and principles of genetic therapy.

### Skills

After pre-exam and exam obligations student will be able to:

- See difference in structural levels and functional organisation of human genome
- Identify mechanisms of regulating gene expression
- Understand genetic experiments which lead to determining causes for genetic diseases.
- Explain methodology of basic techniques of molecular genetics
- To use the internet and other learning sources with great understanding

### CONTENT OF THE SUBJECT:

#### Theoretical teaching – methodical units

1. Introduction to human genetics
2. Nuclear acids
3. Molecular organization of a cell
4. Molecular organization of chromosome
5. Laws of inheriting
6. Deviation from Mendel rules of inheritance
7. Functional organization of human genome
8. Mutations, reparations and recombinations
9. Molecular markers
10. Prenatal diagnosis of genetic diseases
11. The ways of inheriting diseases
12. Analysis of tests and signatures

#### Practical teaching – methodical units
1. NUCLEIC ACIDS - structure and function of DNA and RNA
2. CELL ORGANELLES - built and function and microphotographies
3. CHROMOSOMES OF A MAN, KARIOTYPE AND KARIGRAM
4. CELL DIVISIONS AND GEMATOGENESIS
5. BASIC LAWS OF INHERITING
6. ANALYSIS OF FAMILY TREE
7. DEVIATION OF MENDELI RULES
8. CHARACTERISTICS RELATED TO SEX CHROMOSOMES X AND Y
9. MULTIPLE ALELS – ABO system of blood groups and Rh system
10. CHANGES IN NUMBER AND STRUCTURE OF CHROMOSOMES
11. POPULATION GENETICS
12. ISOLATION OF DNA AND ELECTROFORESIS
13. MOLECULAR MARKERS
14. FORENSICS

**RECOMMENDED READING**

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<td>3. Popić-Paljić F. Humana genetika-Medicinski fakultet, u štampi</td>
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**Evaluation of students' work – No.of points per individual activity**

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1. Prof. dr Feodora Popić-Paljić

2. Asst. Ivana Kavečan
3. Dr Miljen Maletin, Associate u nastavi
4. Nataša Jovanović, Associate u nastavi
5. Dr Iva Salatić, student na dokt.studijama

Chief of the department
Prof. dr Aleksandra Doronjski, ensuring
5. (StI-ME/SC) MEDICAL ETHICS AND SOCIOLOGY

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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 their future occupation.
- Teaching students about the greatest achievements in sociological science.

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. Notion of moral, morality, ethics, oaths and codes.
2. Ethical attitude of health worker towards sick person and some groups in medicine.
3. Great and internal dilemmas-eutanasia, abortion, medical secret...
4. Ethical attitude of medical workers towards their colleagues, community and their profession.
5. Medical deontology and medical law.
6. Subject and methods of sociology.
7. Notion 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

- Marić J.(2002), Medicinska etika: Megraf, Beograd

RECOMMENDED READING

Compulsory


Additional

Evaluation of students' work – No. of points per individual activity

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Exercises</th>
<th>Test</th>
<th>Seminar paper</th>
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List of teachers and assistants

<table>
<thead>
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<th>Assistant</th>
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<th>Professor</th>
<th>PhD</th>
<th>Associate prof.</th>
<th>Professor</th>
<th>Scientist</th>
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</tbody>
</table>

1. Prof dr Aleksandra Doronjki
2. Prof dr Milan Tripković
3. Prof. dr Branimir Gudurić

Chief of department
Prof. dr Aleksandra Doronjki s.r
6. (StI-MS/IF) MEDICAL STATISTICS AND INFORMATICS

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies of dentistry</th>
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<td>DEPARTMENT</td>
<td>Department for social medicine and health statistics and informatics</td>
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<td>NAME OF SUBJECT</td>
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Condition: None

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<td>Methods of conducting teaching</td>
<td>Lectures, Exercises, work on computer</td>
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</table>

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

**Knowledge:**
- Basic techniques and methods of health statistics.

**Skills:**
- Use of statistical techniques and application of statistical and analytical methods and presentation of results.
- Use of computers and solving problems by using ready programmes. Using the internet. Using all programmes for text, tables, calculations and presentations. Organising medical data by using programmes for calculation.

**Theoretical teaching – methodical units**

1. Introduction to general and health statistics. Ways of gathering data.
2. Control of gathered data. Grouping and coding of data.
3. Putting data in tables and graphs.
4. Analysis, absolute and relative No. of seminars
5. Mean values.
7. Sample and standard mistake.
8. Trend and correlations.
9. Statistic tests.
10. Methodology of examining health of population.
11. Indicators of health of population
12. No. of seminars and structure of population
13. Natural movement of population.
14. Mechanical movement of population Morbiditet
15. Solving problems by using computers.
16. Basic software and hardware knowledge.
17. System and applicational software.
19. Application of computers in medicine.

**Practical teaching – methodical units**
1. Registration of polls
2. Graphical show and putting in tables
3. Analysis and absolute and relative No.of seminars
4. Mean values
5. Measures of variability
6. Sample and standard mistake
7. Trend
8. Correlation
9. T-test
10. \( x^2 \)-test
11. indicators of sex and age structure of population
12. natality, fertility, reproduction
13. Indicators of mortality
14. Population growth
15. Show of morbidity
16. Basic functions of operational system
17. Working with files
18. Using internet services
19. Working with text
20. Cross table calculation
21. Statistical work with data
22. Integration into unique document
23. Making of simple computer presentation
24. Making of simple Web presentation

**Evaluation of students' work – No.of 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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**List of teachers and assistants**

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<th>Professor</th>
<th>PhD</th>
<th>Associate prof.</th>
<th>Professor</th>
<th>Scientist</th>
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</thead>
</table>

Chief of department
Doc. dr Eržebet Ać Nikolić
### 7. (StI-PP) FIRST AID

**STUDY PROGRAMME**
Integrated studies of dentistry

**DEPARTMENT**
Department for urgent medicine

**NAME OF SUBJECT**
FIRST AID

**STATUS OF THE SUBJECT**
Compulsory

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**Methods of conducting teaching**
Practical work demonstrations and simulations of sudden injuries and giving first aid. Work on models.

**GOAL**
Basic goals of education are introducing students to principles of initial help. Application of theoretical knowledge in practice. Learning skills for immediate help to the injured, preserving their life as well as the life of a helper.

**PURPOSE**
Knowledge
Teaching students about forms of sudden disease and getting hurt and ways of helping.

Skills
Skills of examining and recognizing signs and symptoms that an injured or sick person has which ask for immediate reaction.

**Theoretical teaching – methodical units**

**Practical teaching – methodical units**
Practical teaching is done on models and with situation simulations:

1. Examination and triage of the injured
2. Evacuation of the injured
4. Appropriate position for an injured person.
5. Sudden heart arrest and basic methods for revival of adults and children.
7. Open injuries and care
8. Injuries of bone and joint system.
9. Injuries of head and spine, chest and stomach. Preventing complications.
10. Injuries caused by heat or electricity
11. Injuries caused by cold.
12. Special injuries, diseases and conditions and care

**RECOMMENDED READING**

**Compulsory**

**Additional**

**Evaluation of students' work – No.of points per individual activity**

<table>
<thead>
<tr>
<th>Lectures</th>
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<td>Prof. dr Miroslava Pjević</td>
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<td>Asst. mr Srdjan Ninković</td>
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<td>Asst. pripr. Aleksandar Marcikić</td>
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<td>Dr Ilija Srdanović, Associate u nastavi</td>
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8. (StI-STJE) FOREIGN LANGUAGE I-English

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</table>

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

1. **Goal:** 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.

2. **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.

3. **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:**

1. **Theoretical teaching – methodical units**
   - Introduction: the importance of knowing foreign language. Human body.
   - Chemical elements and compounds
   - Cell: sorts of living organisms, built and functions of different types of cells in human body.
   - Skeletal system: types of bones, connection between skeletal and muscle systems, tendons.
   - Muscles: types of muscles, connection between skeletal and muscle systems, tendons.
   - Digestive system: main parts, digestive process.
   - Nervous system: built and functions.
   - Circulatory system: lymph system, blood, cardiovascular system, arteries, blood pressure, veins.
   - Respiratory system: breathing, parts of the system and their functioning.
   - Excretory system: basic built and its functions.
   - Endocrine system
   - Reproductive system

**Recommended Reading**

1. Compulsory

2. Additional

**Evaluation of students’ work – No. of points per individual activity**

<table>
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<th>Pre-exam obligations</th>
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**List of teachers and assistants**

- Associate
- Assistant
- Lecturer
- Professor
- PhD
- Associate prof.
- Professor
- Scientist

1. Zoran Marošan, Lecturer
2. Vuk Marković, Lecturer
9. (StI-BHEM) BIOCHEMISTRY

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<td>Methods of conducting teaching</td>
<td>Lectures for bigger and smaller groups using multimedia. Testing. Practical knowledge-conducting biochemical analysis and reading results.</td>
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GOA

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.

PURPOSE

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 to biochemistry.
2. Water as biological solvent.
3. Aminoacids. Peptides..
5. Nuclear acids, bases, DNA, genetic code, RNA.
6. Phospolipides and biological membranes.
10. Digesting of proteins and absorption of aminoacids.
15. Calcium and its importance.
16. Parathormon, D-hormone i kalcitonin.
17. Biochemistry of blood-blood plasma, coagulation of blood, biochemistry of eritrocites.
18. Biochemistry of connective tissue
20. Oral biochemistry.

**Practical teaching – methodical units**

1. Introduction. The aim of exercises. Summary of teaching. Checking the reliability of biochemical methods
3. Kolorimetric determination of the concentration of inorganic phosphate.
5. Isolation, fibrinogene method.
6. Polarimetrija. Determining a specific angle of turning the plane of polarized light and glucose concentration glukoze u urinu.
7. Quantitative determination of urea Berthelot method.
8. Qualitative analysis of bile color in the serum and urine.
10. Qualitative proving enzymes.
11. Enzymatic hydrolysis of starch-alpha amylase activity.
13. Proof of the existence izoenzima alkaline phosphatase.

RECOMMENDED READING


Evaluation of students' work – No. of points per individual activity

<table>
<thead>
<tr>
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List of teachers and assistants

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1. Prof dr Jela Borota
2. Doc. dr Katica Bajin Katić
3. Doc dr Karmen Stankov
4. Doc dr Ljiljana Andrijević
5. Asst. mr Mirjana Milošević-Tošić
6. Asst. dr Tatjana Ćebović
7. Asst. mr Jelena Stojić-Bantić
8. Asst. mr Jasmina Katić
9. Asst. mr Jovica Oros

Chief of department
Prof. dr Jela Borota ensuring
10. (StI-FIZO) PHYSIOLOGY I

<table>
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Methods of conducting teaching: Lectures. Practical work.

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.

**Knowledge**

Introducing students to the basic mechanisms of functioning of different organ systems and forms of organization of complex regulatory mechanisms homeostatick parameters of 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 conduct in the laboratory. Students should become familiar with basic laboratory procedures and to acquire Skills performing daily laboratory tests. Students should gain insight into the work on animal model and work with animal tissue used as a demonstration of some physiological phenomena. Students should be thoroughly acquainted with the manner of taking and preparing blood and urine, and basic methods of laboratory analysis of blood and urine, which are used in practice svkodnevnoj (sedimentation, hematocrit, erythrocyte No.of seminars, No.of seminars leukocytes, differential blood picture, 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 know that independently measured the arterial blood pressure and auscultation of the heart to do, 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 a living units and their functions. Homeostaticmehanizmi major functional systems.

**Practical teaching - methodical units**

1. Breathing (model ribs, Donders model, spirometry, spirogram, pneumografi, Forced ekspirogram, the composition of air)
2. Breathing (sailing in the mouth, digestion in the stomach)
3. The heart and circulation (control of heart rate, ECG, blood pressure, heart auscultation, polikardiography, capillary blood)
4. Blood (plasma buffer, sedimentation, hematocrit, hemolysis, No.of erythrocyte, No.of leukocytes, differential blood count, bleeding time and coagulation 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. Despovs, S. Silbermajl. Fiziološki atlas u boji
3. V.M. Mujović. Medicinska fiziologija
4. K.V. Sudakov. Fiziologija – osnovi i funkcionalni sistemi

**GOA**

Methods of conducting teaching: Lectures. Practical work.

**PURPOSE**

Knowledge: Introducing students to the basic mechanisms of functioning of different organ systems and forms of organization of complex regulatory mechanisms homeostatskih parameters of 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 conduct in the laboratory. Students should become familiar with basic laboratory procedures and to acquire Skills performing daily laboratory tests. Students should gain insight into the work on animal model and work with animal tissue used as a demonstration of some physiological phenomena. Student should be thoroughly acquainted with the manner of taking and preparing blood and urine, and basic methods of laboratory analysis of blood and urine, which are used in practice svkodnevnoj (sedimentation, hematocrit, erythrocyte No.of seminars, No.of seminars leukocytes, differential blood picture, 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 know that independently measured the arterial blood pressure and auscultation of the heart to do, determine the respiratory volumes and capacities.
### Evaluation of students' work – No. of points per individual activity

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### List of teachers and assistants

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</tr>
<tr>
<td>1. Prof. dr Nikola Grajić</td>
<td>2. Prof. dr Vesna Ivetić – Petrović</td>
<td>3. Prof. dr Danka Filipović</td>
<td>4. Prof. dr Nada Naumović</td>
<td>5. Doc. dr Damir Lukač</td>
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Chief of department  
Prof. dr Nikola Grajić ensuring
### 11. (StII-FIZO) PHYSIOLOGY II

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Methods of conducting teaching: Lectures. Practical work.

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**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**


5. Vegetative nervous system: sympathetic and parasimpatikus centers: structure, classification, vegetative ganglia and their function, the specific mediators, Division of vegetative reflexes and the importance of dual innervation bodies.


**Practical teaching – methodical units**

1. Irritable tissues
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. Excretion (urine general characteristics, chemical composition of urine, urine sediment)
4. Additions (testing the senses of sight, hearing and balance, testing superficial and deep sensibility)
5. CNS (spinal reflexes decapitated frog, spinal shock, reflex port testing, clinical testing of important reflexes, EEG, neural activity, EMNG, EP, reaction time)

**RECOMMENDED READING**

1. A.C. Guyton. Medicinska fiziologija
2. D. Sterio i sar. Praktikum iz fiziologije
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

<p>| Evaluation of students' work – No. of points per individual activity |
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Chief of department
Prof. dr Nikola Grujić ensuring
12. (StII-MB/HE) GENERAL AND ORAL PATHOLOGY

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<td>Condition</td>
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### Year of studies

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### Methods of conducting teaching

#### 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

- 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;
  2. Inflammation;
  3. Precancerous conditions and changes in the lining of mouth;
  4. Tumors,
  5. Disorders of teeth and jaws
  6. Pathology of salivary glands.

#### 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 ie. 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

1. Damage and cell death,
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 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
  2. Medicinski fakultet, Novi Sad, 2006
  3. Hadžić i saradnici: Patohistološki praktikum, Medicinski fakultet Novi Sad
  4. Eri i saradnici: CD patohistoloških vežbi, Novi Sad

- Additional
  1. Patologija, Medicinski fakultet Beograd

### Evaluation of students’ work – No.of points per individual activity

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Chief of department  
Prof. dr Živka Eri, ensuring
13. (StII-PFIZ) PATHOLOGICAL PHYSIOLOGY

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

Condition: Biochemistry, Physiology I Physiology II (Exam)

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Methods of conducting teaching: Theoretical Lectures, Laboratory Exercises, Test

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

OBJECTIVES
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.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**
1. Introduction to Pathophysiology
2. Etiologic factors of disease
3. Nonspecific and specific defense. Fever
4. Inflammation
5. Disorders of protein metabolism
6. Disorders of carbohydrate metabolism
7. Disorders of lipid metabolism and atherosclerosis
8. Disorders of metabolism of water and electrolytes
9. Eating disorders – obesity and malnutrition
10. Disorders of calcium and phosphorus metabolism
11. Paratireoide gland disorders
12. Disorders of pituitary and gonad axis
13. Disorders of the adrenal axis
15. Chemical factors in the disease
16. Disorders of metabolism of vitamins and enzymes
17. Disorders of white blood lineage
18. Disorders of Haemostasis
19. Disorders of red blood lineage
20. The effect of heat on the body
21. The effect of changes in air pressure on the body
22. The effect of cold on the body
23. Effect of mechanical factors, electrical. current and electromagnet. rays.
24. Effects of ionizing radiation on human body
25. Pathophysiology of the respiratory system
26. Pathophysiology of nervous system
27. Pathophysiology of the digestive tract
28. Pathophysiology of the cardiovascular system
29. Pathophysiology of the digestive tract
30. Pathophysiological changes in liver function
31. Malignant neoplasia as etiological factor in diseases
32. Pathophysiology of nervous system-pain, headache, disorders. transmission
33. Pathophysiology uropoetskog system
34. Immune disorders as etiological factor of disease
35. Acidobazne balance disorders
36. Disorders of bone metabolism
37. Pathophysiology of the locomotor system
38. Pathophysiology of dental diseases

**Practical teaching – methodical 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 hemoragijskih syndrome
9. Functional testing hemostaznog system 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 system uropoetskog

Recommended reading


Additional

Evaluation of students' work – No. of points per individual activity

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List of teachers and assistants

1. Prof dr Ferenc Dujmović
2. Prof. dr Zoran Stojić
3. Prof. dr Mirjana Đerić
4. Doc. dr Nikola Ćurić
5. Doc. dr Marija Žarkov
6. Doc. dr Gorana Mitić (u izboru)
7. Asst. mr Radmila Žeravica
8. Asst. Ana Jakovljević-Filipović (u izboru)
9. Asst. pripr. Sančica Kojić-Damjanov
10. Asst. pripr. Velibor Čabarkapa
11. Asst. pripr. Romana Mišović
12. Asst. pripr. Biljana Vučković
13. Dr Branislava Ilinčić Associate u nastavi

Chief of department
Prof. dr Ferenc Dujmović ensuring
# MICROBIOLOGY AND IMMUNOLOGY

## Integrated studies of dentistry

### DEPARTMENT
Department for microbiology with parasitology and immunology

### NAME OF SUBJECT
MICROBIOLOGY AND IMMUNOLOGY

### STATUS OF THE SUBJECT
Compulsory

<table>
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<th>Condition</th>
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### Methods of conducting teaching
Tests, exams and practical exam theory

### 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


Microscopic examination of uncolored bacteria. Microscopic examination of colored bacteria. 3. Culture testing of bacteria.


### RECOMMENDED READING

<table>
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<tr>
<th>Compulsory</th>
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<tr>
<td>2. Immunologija, Vera Jerant-Patić, Budućnost, Novi Sad 2002, 285 str</td>
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<tr>
<td>4. Medicinska parazitologija, sa mikologijom, Tibor Lepeš, Medicinski fakultet, Novi Sad, 1988, 185 str</td>
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Chief of department:
Prof. dr Vera Jerant-Patić
15. (StII-FAR) GENERAL PHARMACOLOGY

**STUDY PROGRAMME** Integrated studies of dentistry

**DEPARTMENT** Department for general pharmacology, toxicology and clinical pharmacology

**NAME OF SUBJECT** GENERAL PHARMACOLOGY

**STATUS OF THE SUBJECT** Compulsory

**Condition** Biochemistry, Physiology II (Exam)

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**Methods of conducting teaching** Theoretical Lectures and practical Exercises

**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** 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, oficinalni, almost medicinal) and to explain;
- must know that the registers used drugs;
- must know to fulfill the registration form unwanted effects of the drug.

**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.
4. Metabolism of drugs. Induction and inhibition of enzymes. factors that alter the metabolism of drugs.
5. Pharmacokinetic models. Pharmacokinetic parameters.
8. Farmakogenetics.
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.
14. Drugs in the treatment of disorders and diseases of the GIT.
15. Drugs in the treatment of disorders and diseases of the respiratory system.
16. Drugs in the treatment of disorders and diseases of KVS.
17. Trombolitici, antiagregacical drugs, antikoagents.
19. Treatment of anemia.

**Practical teaching – methodical units**

3. Solid forms of drugs.
4. Liquid forms of drugs.
5. Semi-solid forms of medication.
6. Inhalation.
7. Screw material.
8. Prescribing drugs to Pharmacotherapeutic group.
RECOMMENDED READING

Compulsory


Additional

5. LEKOVI U PROMETU, OrtoMedics, Novi Sad, 2007 (i starija izdanja)

Evaluation of students' work – No of points per individual activity

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Chief of department
Prof. dr Ana Sabo, ensuring
16. (StII-STJE) FOREIGN LANGUAGE II - english

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

GOAL
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.

PURPOSE
Knowledge
Introducing students to the terms of the English language in everyday usage, grammar, language structures, culture and tradition of English-speaking. Presentation of the difference between the everyday and professional (medical) English: differences in terminology used by a dentist and his patient, and differences in spoken and written expression. Grammar and lexicon.

Skills
Application of knowledge outside the profession and in the profession. Mastering communication skills when it comes to everyday needs and general culture. The ability of professional literature with translation in English. Finding your way in the professional literature and the ability of the presentation of professional knowledge, both orally and in writing.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

**Practical teaching – methodical units**

1. Reproductive system: male and female reproductive system and their anatomy, sex glands, sexual hormones, insemination, gastacij Plus, childbirth.
2. Senses: sense organs - their material, and functions (eye, ear, nose, tongue, skin)
3. Body actions: words that are used for various physical activities in everyday life.
4. Physical appearance: describe the physical appearance of people (hair, face, natural material, skin, general appearance).
5. Character: a description of different character traits of people (intelligence, life attitudes, behavior in society, ambition, justice, and others)
6. Clothing: the appointment of various garments and their use, different materials of which garments make, color, general appearance and style of dressing.
8. Travel: means of transport, reasons for travel (business travel, adventure, tourism), navigate the road, destination, planning.
10. Young people and society: childhood, growing up, adolescence, the role of man in society, individuals as a factor of change, academic citizens.
11. Humor: Humor as a reflection of intelligence and positive thinking, humor as a factor of health, humor as a cultural phenomenon, a sense of humor.
12. Fear: fear types, causes fear, ways to overcome the fear, the role of fear in manipulating people.
14. Solitude: loneliness as a subjective phenomenon, the circumstances that lead to feelings of loneliness, solitude in relation to loneliness.

RECOMMENDED READING

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
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Evaluation of students’ work – No.of points per individual activity

40
### Pre-exam obligations

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<th>Seminar paper</th>
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### Total

| 100 |

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### List of teachers and assistants

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<th>Lecturer</th>
<th>Professor</th>
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1. Zoran Marošan, Lecturer
2. Vuk Marković, Lecturer

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Chief of department
Prof. dr Aleksandra Doronjski ensuring
17. (StII-GNTO) GNATOLOGY

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies of dentistry</th>
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**Condition**: Dental anatomy

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**Goals**

**Knowledge**
- Morphology of craniofacial, physiology and craniofacial systems, transmitting the basic parameters of the patients in the external environment.

**Skills**
- Working with the articulator and Buccal onions, modeling by Peter Thomas

**Content of the Subject**

**Theoretical Teaching – Methodical Units**
- Introduction gnatologiju
- Craniomandibular articulated connection - anatomical specificity
- Craniomandibular articulated connection - functional specificity
- 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) conduct
- Jaw movement
- Reference positions of the lower jaw
- Characteristic physiological optimal occlusion
- Characteristics nonphysiological occlusion
- Articulators
  - Simulation of eccentric motion of the lower jaw of adjustable articulators
  - Functional analysis orofacialnog complex; importance, methods, scope of analysis
  - Evaluation of state okluzionog complex
  - Analysis of inter jaw relations
  - Symptoms and signs nonphysiological occlusion
  - Occlusal therapy
  - Irreversible occlusal therapy
  - Irreversible occlusal therapy - selective grinding
  - Etiology, pathology and therapy of tooth abrasion.
  - Irreversible occlusal restoration of occlusion therapy-full, fixed and mobile occlusal replacement therapy of patients with malocclusion

**Practical Teaching – Methodical Units**
- Craniomandibular joint connection, movement of the lower jaw;
  - Articulators types, parts, work with the articulator, with mean values guide
  - Portable Buccal onion, demonstrations
  - The central position of the jaw, finding and registering
  - Semiadjustable articulators-positional registry, registration of the position analysis of the occlusion models in the articulator
  - Analysis of tooth contact relationships in the models prepared patients
  - Modeling of the occlusal relief P.K. Thomas in the upper side teeth
  - Modeling of the occlusal relief P.K. Thomas in the lower lateral teeth
  - Functional analysis of the orofacial complex;
  - Evaluation of occlusal state complex
  - Occlusal trauma
  - Irreversible occlusal splint therapy development of Michigan

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

**Evaluation of Students' Work – No. of points per individual activity**

<table>
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<th>Lectures</th>
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**List of teachers and assistants**

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1. Prof dr Dubravka Marković
2. Doc dr Ljiljana Strajnić
3. Asst pripr. Branislava Petromjević
4. Dr Daniela Durović, Associate u nastavi

Chief of department
Prof. dr Dubravka Marković s .r.
18. (StII-STPRP) DENTISTRY PROTETICS PRECLINICS

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<th>Lectures</th>
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- Acquiring knowledge about the types and manner of making dentures.
- Student needs to know type of prosthesis, their purpose and manner of placement.
- Students should know how to take print, how to produce and dentures.

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**

1. Anatomical image.
2. Functional image.
3. Getting the working model.
4. Biting pattern formation.
5. Determining the position of teeth in patients with eugnatim jaw relationship.
7. Preliminary set of artificial teeth.
8. Definitive tooth setup. The final procedures in the preparation of complete dentures.
9. Reparatur, proofreading and podlaganje complete dentures,
10. Immedial total prosthesis,
11. Supradental total prosthesis.
12. Total denture bases reinforced metal skeleton.
15. Retention, stabilization, transfer of occlusal loads, and keeping a partial denture plate.
17. Retention, stabilization, transfer of occlusal loads and keeping sceletilased partial denture.
18. Application paralelometra in the planning and construction of partial dentures.
20. Laboratory sceletilised making partial dentures.
21. Definition, goal and tasks of dental prosthetics.
22. Models for individual studies and a spoon.
23. Conditions that define rational preparation.
24. Preparation of teeth for cast crowns (basic principles). Fasetiranu tooth preparation for crowns (basic principles).
25. Making working models for fixed compensation.
26. Making full cast crowns.
27. Root canal preparation.
30. Making the front and side bridges.
31. Application paralelometra in making fixed restorations

**Practical teaching – methodical units**

1. Anatomical image.
2. Individual spoon.
3. Functional image.
5. Set the port on the cheek phantom. Transfer models of the jaws in the articulator.
7. Modeling outer surfaces, respectively. Finished wax models of dentures.
8. Kiveting and polymerization and processing of finished dentures.
9. Film - phase partial denture plate.
11. The model for the study. Paralelometar. Analysis model for studies in paralelometru and articulator.
12. Transfer skeletal design partial denture with a model for studies of the basic model.
13. Preparation of the basic model, doubling and drafting of Refractory model.
15. Making wax model skeleton parcijanle prosthesis. Setting livnih channel.
17. Preparation of teeth for faceted crown (demarcation polužleba preparation forms and steps).
18. Preparation of ceramic dental fees.
19. Protection of ground teeth.
21. Making wax model cast upgrading and development of models cast from akrilata upgrade.
23. Modeling of cast crowns on molars. Modeling faceted crown on premolar. modeling fasetiranog body bridge.
24. Modeling caps for metal crown and metal-edge crown with the crown in ceramics.
25. Modeling skeleton front metalloceramic bridge in wax.

### Evaluation of students' work – No. of points per individual activity

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### List of teachers and assistants

1. Prof. dr Ljubiša Džambas
2. Prof. dr Dubravka Marković
3. Doc. dr Ljiljana Strajnić
4. Dr Tatjana Puškar, Assistant
5. Dr Branislava Petronijević, Assistant pripravnik
6. Dr Bojana Jefić-Milekić, Assistant
7. Dr Aleksandra Andjelković, Associate u nastavi
8. Dr Danijela Đurović, Associate u nastavi
9. Asst. Milica Jeremić-Knežević (u izboru)

Chief of department
Prof. dr Dubravka Marković, ensuring
# 19. (StII-BUSP) TEETH DISEASE - PRECLINICS

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| Methods of teaching | Theoretical and practical |

**Goal:**

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

**Knowledge**

- Etiopathogenesis of caries, diagnosis and classification of carious lesions, 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 medikamentoznih basis.

**Theoretical teaching – methodical units**

- Caries; definitions and etiopathogenesis . . Caries immune and caries predilective place.
- Classification of caries during the localization, spread way through dental tissue
- Lesion of dental hard tissue is not carious etiology
- Work place, review and mark the teeth.
- Cavity preparation for amalgami Class 1 aesthetic restoration
- Cavity preparation for 2-class aesthetic restoration amalgami
- MOD Cavity preparation for amalgami aesthetic restoration of teeth with vital pulp and endodontic treated teeth. Complex cavity, additional retention systems
- Cavity preparation 3, 4 and 5 class
- Cavity preparation for the meet and indirect way facets are placed
- Principles of reconstruction of the tooth crown
- Dry working field
- Temporary closure of Cavity - indications, materials
- Protective and hormonal substrates
- Definitely closing Cavity - selection of materials
- Composite resins in dentistry restaurativnoj
- Binding (adhesive) systems in dentistry restaurativnoj
- Voice-jonomer cement
- Composite resins
- Dental amalgams

**Practical teaching – methodical units**
Introduction to organization and method of conducting practical nasteve. Introduction with the basic principles of labor, equipment and instruments. Workplace and dental machines. Instruments for their purposes. Mechanical instruments and their use. Position therapist at work (in relation to the patient). Direct and indirect work in the mouth. Reliance (fixing) the hand when working in the mouth.

- Cavity preparation class 1 occlusal surface of molars
- Cavity preparation class 1 / continuation /
- Cavity preparation class 1 (continued)
- Cavity preparation class 1 - coecum foramen and foramen molar
- Cavity preparation class 2 molar
- Cavity preparation class 2 premolars
- MOD Cavity preparation in teeth with vital pulp
- MOD Cavity preparation in endodontic treated teeth
- Cavity preparation 3 classes
- Cavity preparation class 4
- Cavity preparation 5 class front teeth
- Cavity preparation class 5 on lateral teeth
- Dry working field
- Protective surfaces; theoretical introduction
- Training set of protective surface
- Preparation and placement of materials for the temporary closure of Cavity
- Reconstruction of tooth crowns the final meet, the theoretical uvod.Osnovni and auxiliary instruments for placing definitive construction (Instruments for entering and formatting the material, matrix, interdentalni pins)
- Setting amalgamski construction
- Setting composite fillings
- Set the filling of the voice jonomer cemenata
- Definitive treatment of construction

### RECOMMENDED READING

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### Additional

### Evaluation of students' work – No.of points per individual activity

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1. Doc.dr Larisa Blažić
2. Doc.dr Ljubomir Petrović
3. Doc. dr Tatjana Brkani (u izboru)
4. Asst. mr Ivana Stošić
5. Asst. Milan Drobac
6. Dr Igor Stojanac, Associate u nastavi
7. Dr Daniela Đurović, Associate u nastavi
8. Dr Aleksandra Andjelković, Associate u nastavi
9. Dr Ivana Kantardžić, Associate u nastavi

Chief of department
Prof. dr Dubravka Marković, ensuring
20. (StII-MNIR) INTRODUCTION TO SCIENTIFIC WORK

STUDY PROGRAMME
Integrated studies of dentistry

DEPARTMENT
Department for general subjects

NAME OF SUBJECT
INTRODUCTION TO SCIENTIFIC WORK

STATUS OF THE
Compulsory

Condition
Medical Statistics and Informatics

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Methods of conducting teaching
Lectures, Exercises, seminars

GOAL
Students will be familiar with the basic principles of scientific work in the biomedical sciences.

PURPOSE
Students will acquire the necessary knowledge about the scientific way of thinking, planning and execution of research in medicine.

Skills
They will perfect themselves in the analysis of the flow of research and original scientific work.

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units
2. Types of research.
3. Logical structure schemes of scientific research.
4. Types of scientific publications.
5. Evaluation of scientific works.
6. Dishonesty in science.
7. Biomedical research informatics.
8. Collecting and processing data.

Practical teaching – methodical units
1. Realizing the problem and defining the topics of scientific research.
2. Analysis of examples of scientific research.
3. Processing of scientific and technical documents.

RECOMMENDED READING

Compulsory

Additional

Evaluation of students' work – No. of points per individual activity

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List of teachers and assistants

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<td>1. Prof. emeritus dr Nevenka Rončević</td>
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<td>3. Dr Vladimir Sakač, Assistant</td>
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<td>4. Dr Sandra Jovanović – Barsač, Assistant pripravnik</td>
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<td>5. Dr Tihomir Dučančija, Assistant pripravnik</td>
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Chief of department
Prof. dr Aleksandra Doronijski, ensuring
21. (StII-IZPR) MEDICAL INFORMATICS

**STUDY PROGRAMME** Integrated studies of dentistry

**DEPARTMENT**

**NAME OF SUBJECT** MEDICAL INFORMATICS

**STATUS** optional

**Condition** none

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**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.

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

**PURPOSE**
**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 KoBSON, 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**


|           | 3. Lecture Notes in Medical Informatics. Springer-Verlag.  
|           | 4. Časopisi: *International Journal of Medical Informatics* i Methods in Medical Informatics  
|           | 5. Izvori sa Interneta |

**Evaluation of students' work – No.of points per individual activity**

<table>
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1. Prof. dr Petar Slankamenac, vanredni profesor
2. Doc. dr Robert Seminc
3. Doc. dr Duško Kozić
4. Doc. dr Dragana Dílas – Ivanović (u izboru)
5. Doc. dr Katarina Koprivšek (u izboru)

6. Asst. mr Bojana Petrovački – Balj

**Lecturers**

Prof. dr Jelena Mihaljev-Martinov
dr sc. med. Silvija Brkić, scientific Associate
21. (StII-Izpr) MICROSCOPIC LABORATORY TECHNIQUE IN MEDICINE

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies of dentistry</th>
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<td>DEPARTMENT</td>
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Methods of conducting teaching:
- theory, practical exercises, self-development seminar work

GOAL:
That students learn techniques of microscopic histology preparations

PURPOSE:
Knowledge:
- Supposition of laboratory work, the choice of fixative in working with biological materials, methods of processing biological materials with microscopic characteristics of particular expertise, including simple and complex method of staining, the tissue culture laboratory medicine, pathology laboratory animals, norms and the prevention of illness in working with laboratory animals.

Skills:
- Mastering work in the laboratory of biological materials with special emphasis on accident prevention, preparation solution in laboratory work, preparation of native and vital microscopic preparation, fixation and further processing of the different tissue samples (rinse, dehydration, inclusion, molding), the use microtomes, staining microscopic preparations, Working with laboratory animals, preparation and maintenance of tissue culture, mastering the technique of obduction of laboratory animals.

Theoretical teaching – methodical units:
1. Microscopy, history, types of
2. Classification of toxins by WHO and the prevention of poisoning and drujih accident in the laboratory histološkoj
3. Methods of tissue fixation, choice of fixative for light and electronic microscopy
4. Blood and tissue smear and prints, cytological characteristics of some samples, bazofilija and eosinophilija as well as representatives cytological structure
5. Microtomes and work with them (history of Purkinjea, manual, rotary, slide, kriotom)
6. Classification histology color staining method, a simple staining
7. Complex staining
8. Selective coloring, the most important reactions citohemijske
9. Bacteriological methods of dyeing, simple and complex
10. Preparation of microscopic preparations helminata and artropoda
11. Tissue culture
12. Biology and conditions of work with laboratory animals
13. Pathology of laboratory animals and the prevention antropozoonoses
14. Consultation paper for the seminar and exam
15. Consultation paper for the seminar and exam

Practical teaching – methodical units:
1. Native and vitally stained microscopic preparations
2. Measuring the technical balance; pipetiranje and preparing the solution; first aid for poisoning
3. Preparation of fixative, taking snippets of tissue, rinsing after fixation, dehydration
4. Dyeing method of Giemsa and Papanicolaou, leukocitna formula in laboratory animals
5. Molding in paraffin for histological classical technique, cutting the preparations microtomes
6. Staining toluidinom, lipstick, determining phase estrusnog cycle in rodents
7. Hematoxylin staining and eozinom, van Gieson
8. Peroxidase, iron and others.
9. Gram staining and objectives Nilzen
10. Methods of illumination Metazoa laktofenolom et al.
11. Eksplantacija, primary and continuous culture
12. Experimental animal models of disease
13. Methods obdukcion diagnostic laboratory animals
14. Writing a seminar paper
15. Pre-exam Exercises

RECOMMENDED READING:
### Evaluation of students' work – No. of points per individual activity

<table>
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<th>Pre-exam obligations</th>
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### List of teachers and assistants

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1. Prof dr Dušan Lalošević  
2. Doc. dr Matilda Đolai  
3. Doc. dr Dušan Božić  
4. Doc. dr Aleksandar Savić  
5. Dr Nenad Solajić, sar. u nastavi  
6. Asst mr Ivana Milošević

Chief of department  
Prof. dr Ljiljana Somer
21. (STII-IZPR) HISTORY OF MEDICINE AND DENTISTRY

STUDY PROGRAMME | Integrated studies of dentistry
DEPARTMENT | Department for general subjects
NAME OF SUBJECT | HISTORY OF MEDICINE AND DENTISTRY
STATUS OF THE Condition | Optional

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Methods of conducting teaching Video presentation and oral

Teach students to modern medicine are not seen as the supreme scientific and practical achievement, but as a dynamic development of medical thought.

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. Viewing the history of medicine and dentistry ranges from preistorijedo 21st century.
2. Great medical thought, the founders of theoretical prevaca, diagnostic and therapeutic procedures

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

RECOMMENDED READING

Compulsor y
3. Maksimović J.: Skripta sa Lectures i video prezentacija

Additional

Evaluation of students' work – No.of points per individual activity

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1. **Prof dr Aleksandra Doronjski, redovni profesor**
2. **Doc. dr Blažena Šimunović - Bešlić**
3. **Dr Vladimir Sakač, Assistant**

Chief of department
Prof. dr. Aleksandra Doronjski
22. (StIII-KFAR) SPECIAL PHARMACOLOGY

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<td>DEPARTMENT</td>
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| Methods of conducting teaching | Teoretska lectures |

**GOAL**
Acquaint students with drug groups, representatives, indications and contraindications.

**PURPOSE**
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 needs to know to write their own prescription.

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**
1. Antimicrobial agents.
2. Antimikotics, Antivirals, Antiparasitic drugs.
4. Drugs in the treatment of disorders and diseases of the endocrine system.
5. D-vitamin, calcium, fluoride.
6. Treatment of osteoporosis.
7. General and local anesthesia.
8. Strong analgesics.
10. Treatment of epilepsy.

**Practical teaching – methodical units**
Elaboration topics that were taught during the teaching process.
Writing recipes.
Filling out the application form side effects of drugs.

**RECOMMENDED READING**

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

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

**Evaluation of students’ work – No. of points per individual activity**

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<th>Pre-exam obligations</th>
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Chief of department  
Prof. dr Ana Sabo
23. (StIII-RAD) RADIOLOGY

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<td>Condition</td>
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</table>

**Methods of conducting teaching**
- Theoretical and practical classes

**Theoretical teaching – methodical units**

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

**RECOMMENDED READING**
- Compulsory
  1. Rakočević Z. Osnovi radiologije dento-maksilofacijalne regije, Balkanski stomatološki forum, 1998
  2. Lazić J. Radiologija, Medicinska knjiga, 1997
- Additional
  1. Lukač I., Šuščević D. Radiologija, udžbenika za studente medicine i stomatologije, Stilos 2000
  2. Šuščević D., Lukač I. Radiologija, udžbenik za studente stomatologije, Stilos 2001

**Evaluation of students’ work – No. of points per individual activity**

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Chief of department
Prof. dr Mira Govorčin ensuring
### 24. (StIII-STAN) DENTAL ANESTHESIOLOGY

**STUDY PROGRAMME** | Integrated studies of dentistry
---|---
**DEPARTMENT** | Department for surgery
**NAME OF SUBJECT** | DENTAL ANESTHESIOLOGY
**STATUS OF THE SUBJECT** | Compulsory

**Conditio n** | General Pharmacology, Special Pharmacology (exam)

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**Methods of conducting teaching** | Theoretical, practical and Seminars

**GOA**

Mastering the theoretical knowledge and practical skills application of general, regional and local anesthesia in dental practice.

**PURPOSE**

- **Knowledge**
  - Adoption of theoretical knowledge in the domain of dental anesthesia in preparation for practical work in dental practice.
- **Skills**
  - Learning practical skills in the application of local, regional and general anesthesia in dental practice.

**CONTENT OF THE SUBJECT:**

Theoretical teaching – methodical units

1. Local anesthetic solutions
2. Applied anatomy
3. Clinical application of local anesthesia
4. Infiltracione (terminal) anesthesia, mandibular anesthesia
5. Anesthesia
6. Application of local anesthesia in children
7. Complications of local anesthesia
8. Application of sedation in dentistry (concept, goal, sedation techniques, indications, contraindications, assessment of sedation, monitoring)
10. General anesthesia (the term, preoperative preparation, premedication, the specifics of anesthesia in the orofacial region)
11. General intravenous and inhalation anesthesia, monitoring, surveillance postanesthetic
12. Complications of general anesthesia
13. Acute delay heart and core measures KPCR
14. Complex measures KPCR; postreanimation disease
15. Pain and Pain in dentistry

Practical teaching – methodical units

1. Accessories for the implementation of local anesthesia (Injectors, needles, ampoules and karpule)
2. Preclinical use of terminal anesthesia (work on model)
3. Preclinical use of mandibular anesthesia (work on model)
4. Clinical application of terminal and mandibular anesthesia (the patient work)
5. Preclinical use of other sprovodnih anesthesia in the lower jaw. Seminars
6. Application of other sprovodnih anesthesia in the lower jaw. Seminars
7. Application sprovodnih anesthesia in upper jaw. Seminars
8. Clinical application of sedation in dentistry (to work with patients)
9. Clinical application of intravenous anesthesia; venepunkcija (working with patients)
10. Clinical application of general anesthesia
11. Clinical application of general intravenous and inhalation anesthesia
12. Complications of general anesthesia
13. Training KPCR
14. Training performance of complex measures KPCR
15. Pain in dentistry

**RECOMMENDED READING**

- Compulsory

- Additional

**Evaluation of students' work – No.of points per individual activity**
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### List of teachers and assistants

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<td>9. Dr Sanja Vicković, Associate u nastavi</td>
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<td>10. Dr Gordana Jovanović - Kalezić, Associateu nastavi</td>
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Chief of department
Prof. dr Miroslav Milankov ensuring
### Subject: Internal Medicine

#### Content of the Subject:

**Purpose**

Students will acquire the needed knowledge from internal areas: on breathing disorders, circulatory disorders of the heart and blood vessels, endocirnological, gastroentrological, hematological and oncologic disorders, as well as implementation diagnosisth and therapeutic procedures.

**Skills**

Students are trained for individual and team work in recognizing the cardiovascular, pulmonological, nephrological, endokrinological, gastroenetrological, hematological and oncologic disorders, as well as implementation diagnosisth and therapeutic procedures.

**Theoretical teaching – methodical units**

- **Acute and chronic leukemia. Lymphoma, multiple myeloma. Hemorrhagic syndrome. ENDOKRINOLOGIJA. Diseases of hypothalamus and pituitary. Paratireoidnih gland diseases and metabolic diseases kosti.**
- **Bolesti thyroid gland. Diseases of the adrenal glands. Obesity and hyperlipoproteinemia. Etiopathogeneza, diagnosis, clinical features and complications of diabetes.**
- **Terapija diabetes. NEFROLOGIJA. Klinički syndromes and classification glomerulopatija. Glomerulonephritis, RPGN.**
- **Acute, persistent, chronic. Acute and chronic pielenfritis, nefrolitijaza. Acute and chronic renal failure.**
- **Immune disorders and autoimmune diseases. Hormonal and nutritional alergija.**
- **GASTROENETEROLOGIJA.**
- **Methods belly. Diagnostics of the gastrointestinal tract. Diseases of the esophagus.**
- **Hijatus hernia. Gastritis, ulksura disease, gastric carcinoma. Diseases of the small and large creva.**
- **Oboljenja pancreas, pancreatitis, pancreatic cancer. Liver disease, hepatitis and liver cirrhosis.**
- **Gall bladder disease, holelitijaza, holecistitis. PULMOLOGIJA.**
- **History and physical results, radiological diagnosis in pulmonologii. Bronhološka diagnosis, bronhoskopija. Mikrobiološke and alergoimunološke pretrage. Akutna bronhopulmonalna diseases, pneumonia, lung bronhiekstazije tromboembolija. Obstructive pulmonary disease.**
- **Definition of chronic bronchitis. Definition and classification of emphysema. Bronchial asthma.**
- **Causes, pathophysiological mechanisms of the emergence of respiratory insufficiency, acute and chronic respiratory insufficiency diseases pleura, pleural outbreaks.**
- **Pulmonary tuberculosis. General and respiratory symptoms, clinical features, consumptive pleuritis. CARDIOLOGY.**
- **Disease symptoms for blood supplies, etiology of heart disease and blood vessels.**
- **Methods of examination of the cardiovascular system. Heart defects: congenital and acquired.**
- **Rheumatic fever. Endocarditis.**
- **Acute and chronic Pulmonary heart. Sipopalna conditions in cardiology. Arterial hypertension.**
- **Coronary disease and acute myocardial infarction heart rhythm disorders Diseases of the arteries and veins. Heart failure and its treatment.**
- **Cardiopulmonary revival. Prevention of cardiovascular disease.**

**Evaluation of students work – No. of points per individual activity**

- **Recommended reading**
  - 1. In preparation
  - Additional

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**Notes:**

- Winter term and Summer term lessons per week.
- No.of tests, No.of seminars, POINTS for theoretical and practical teaching.
### Pre-exam obligations

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### Final exam

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### List of teachers and assistants

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1. Prof. Dr Branka Kovačev Zavišić
2. Prof. Dr Katica Pavlović
3. Prof. Dr Miroslav Štajnić
4. Prof. Dr Dušan Jovanović
5. Prof. Dr Zora Petrović
6. Prof. Dr Gordana Panić
7. Prof. Dr Slobodan Đodić
8. Prof. Dr Dragan Tešić
9. Prof. Dr Tijana Momčilov Popin
10. Prof. Dr Dr Dordje Považan
11. Prof. Dr Vesna Kuruc
12. Prof. Dr Milica Medić Stojanovka
13. Prof. Dr Edita Stokić
14. Prof. Dr Dejan Sakač
15. Prof. Dr Robert Jurg
16. Prof. Dr Dragan Kovačević
17. Prof. Dr Igor Mitić
18. Prof. Dr Zoran Mrđa
19. Prof. Dr Milan Mijatov
20. Prof. Dr Mirjana Dejanović
21. Prof. Dr Nada Čemerlić Adjić
22. Doc. Dr Slavenka Vodopivčev
23. Doc. Dr Dragan Damjanov
24. Doc. Dr Jasna Trifunović
25. Doc. Dr Tatjana Đurđević Mirković
26. Doc. Dr Tatjana Ilić
27. Doc. Dr Aleksandar Savič
28. Doc. Dr Mirna Đurić
29. Doc. Dr Zora Pavlović-Popović
30. Doc. Dr Biljana Zvezin
31. Doc. Dr Ivan Kepić (u izboru)
32. Doc. Dr Dušan Božić
33. Doc. Dr Milan Korica (u izboru)
34. Ass. Dr Jovanka Novaković Paro
35. Ass. Dr Radoslav Pejin
36. Ass. Dr Ivan Nikolić
37. Ass. Dr Milena Mirović
38. Ass. Dr Svetlana Kašiković Lečić
39. Ass. Dr Milovan Petrović
40. Ass. Dr Dragana Tomić Naglić
41. Ass Dr Tatjana Pešić
42. Ass. Dr Tatjana Jocić
43. Ass. Dr Daliborka Bursać
44. Ass. Dr Vladimir Ivanović
45. Ass. Dr Bojan Vujin
46. Ass. Dr Tihomir Orlić
47. Ass. Dr Jelena Radin
48. Ass. Dr Dejan Čelić, Associate u nastavi
49. Dr Zorana Budakov, Associate u nastavi
50. Dr Biljana Miloš, Associate u nastavi
51. Dr Dalibor Somer, Associate u nastavi
52. Dr Borivoj Sekulić, Associate u nastavi
53. Dr Ivanka Stantić – Perić, Associate u nastavi
54. Dr Tijana Radovanov, Associate u nastavi
55. Dr Ivanka Baškin, Associate u nastavi
56. Dr Milica Popović, Associate u nastavi
57. Dr Violeta Mihajlovici, Associate u nastavi
58. Dr Bogdan Bogdanović, Associate u nastavi
59. Dr Miroslav P. Ilić, Associate u nastavi

### Chief of department

Prof. dr Tijana Momčilov Popin, ensuring
26. (StIII-OMED) GENERAL MEDICINE

STUDY PROGRAMME Dentistry studies
DEPARTMENT Department for general medicine
NAME OF SUBJECT GENERAL MEDICINE
STATUS OF THE Compulsory
Condition General and Oral Pathology, Pathophysiology, General Pharmacology

<table>
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<th>Year of studies</th>
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Methods of conducting teaching Theoretical teaching, practical teaching

GOAL
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 gain knowledge from these subjects that will enable them to good differential diagnosis in relation to dental diseases. Also, they must acquire sufficient knowledge of the subjects covered by the general practitioner who will serve as the basis of other clinical cases in the process of study. Knowing etiology, clinical picture of the disease, the necessary laboratory and other results with a purpose of establishing the diagnosis, as well as basic principles of therapy.

Skills
Developing skills of conversation with patients, taking the anamnesis and the formation of diagnostic assumptions and differential diagnosis. Internal, neurological, psychiatric and pediatric patients view, taking swab the ears, nose, skin changes, making microscopic preparations. ... Know-Methods of lumbar puncture, puncture and incision of skin changes, giving them and i.v. injection. Knowing how to interpret routine laboratory findings, bacteriological and virological findings, and x-ray, and other analysis. Knowing how to distinguish eflorescitations on the skin. Notice excesses psychiatric and neurological patients.

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units

1. Dermatology:
   Alergodermatoze; parasitic Dermatitis; Piodermia; viral skin diseases; Buloz Dermatitis; Papuloz Dermatitis; Eritematoskvamozne Dermatitis, autoimmune skin diseases, circulatory diseases and skin tumors of the skin, changes in the mucosa in the mouth dermatovenerological diseases, sexually transmitted diseases.

2. INFECTIOUS DISEASES:
   Organization of primary health care and the role of preventive and curative dental services; Diarealni syndrome, angina syndrome, meningeval syndrome and neuroinfections; Infectious Infectious mononucleosis and herpes simplex virus infection of HIV and AIDS, acute viral hepatitis and chronic viral hepatitis.

3. NEUROLOGY
   Cranial nerves, headaches and neuralgia; Epilepsy, cerebrovascular disease; importance of home treatment services in primary health care system

4. PEDIATRICS
   Haemostasis disorders, allergy to local anesthetics and hereditarni angioedema, metabolic diseases, chronic diseases, children with hereditary diseases and Congenital defects; saliva, convulsions.

5. OBGYN
   Nutrition in pregnancy; Dental care during pregnancy.

6. PSYCHIATRY
   Anxiety disorders, mood disorders

Practical teaching – methodical units

Taking the interpretation of anamnestic data, objective review of the skin and visible mucous membranes; palpation of regional lymph glands; vitopression techniques and interpretation of its findings, the surface skin scraping technique and interpretation of its findings; technique of taking material for native microscopy; techniques elektrokauterizacie; basic principles of local dermatological therapy .

History and epidemiological surveys, physical examination, with special emphasis on the review of head and neck, meningeal signs; egzantemi and enantemi, prevention and prophylaxis of infectious disease vaccines and postekspoziciona prophylaxis.

Neurological examination, cranial nerves, cerebrovascular disease, epilepsy, headache and neuralgia.

Anamnestic pediatric patients, review of infant and child, haemophilia and thrombocytopenia, diabetes and changes in dentistry; chronic diseases; immunogenous and allergic diseases, disorders of bone development.

Taking psychiatric anamnestic, anxiety disorders, mood disorders.
RECOMMENDED READING

Compulsory

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

Additional


Evaluation of students' work – No.of points per individual activity

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<tr>
<th>Lectures</th>
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1. Prof dr Biljana Klašnja
2. Prof dr Jovana Jovanović
3. Prof dr Grozdana Canak
4. Prof dr Milan Cvijanović
5. Prof dr Milan Cvijanović
6. Prof dr Verica Duran
7. Prof dr Vesna Jovanović
8. Prof dr Marina Jovanović
9. Prof dr Snežana Brkić
10. Prof dr Dejan Cvjetković
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16. Prof dr Dejan Cvjetković
17. Prof dr Dejan Cvjetković

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Chief of department
Prof. dr Biljana Klašnja
27. (StIII-HIR) SURGERY

STUDY PROGRAMME: Integrated studies of dentistry

DEPARTMENT: Department for surgery

NAME OF SUBJECT: SURGERY

STATUS OF THE SUBJECT: Compulsory

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

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Methods of conducting teaching

GOAL

Mastering the basic theoretical knowledge and skills in caring for patients in all surgical branches.

PURPOSE

Knowledge

Adoption of necessary knowledge in all surgical disciplines necessary for learning basic skills in the care of surgical patients.

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. Asepsa in surgery, surgical diagnosis and semiology
2. Closed and open injuries
3. Infections in surgery, thermal and electrical injury
4. Shock, intravenous compensation volume in surgical patients, preoperative evaluation and postoperative complications
5. Surgical terminology and types of surgical interventions; alanteze in surgery
6. Basics of abdominal surgery, abdominal trauma
7. Basics of urology; basis of vascular surgery
8. Basics of neurosurgery, neurotrauma
10. Basics of plastic and reconstructive surgery; replantaciona surgery
11. Surgical principles in oncology
12. Basics of thoracic surgery and neck surgery
13. Basic characteristics of the development time of surgery
14. Organization of care for injured
15. War surgical doctrine, war wounds and war injuries specific

Practical teaching – methodical units

1. Principles, methods and means of sterilization, physical examination of surgical patients
2. Access and initial care of injuries, surgical treatment of wounds
3. Disposal of local surgical infection, initial treatment opečenog
4. Initial treatment of patients in shock; basis postoperative care
5. Operating room at work; implants in surgery
6. Diagnostic and surgical treatment of patients with diseases and injuries of the abdomen
7. Aspects of surgical treatment of patients with diseases and injuries urogenital tract; aspects of surgical treatment of patients with acute diseases and injuries of blood vessels
8. Aspects of surgical treatment of injuries from the trauma of the central and peripheral nervous system
9. Measurement in orthopedics; prehospitalnog aspects, the initial hospital and surgical treatment of patients with osteoarticular injury
10. Aspects of surgical treatment of injured and suffering from the domain of plastic-reconstructive surgery and replantacione
11. Methods for early detection of cancer
12. Aspects of surgical treatment of patients with injuries and diseases chest and neck
13. Aspects of surgical treatment of patients and injuries in children
14. Care of injured; categorization and priorities in the care of injured
15. Organization of wounded care in war conditions, specific surgical treatment of war wounds

RECOMMENDED READING

Compulsory


Additional

### Evaluation of students' work – No. of points per individual activity

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<td>1.</td>
<td>Prof. dr Lazar Petković</td>
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<td>Prof. dr Svetozar Sečen</td>
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<td>Prof. dr Dušanka Dobanovački</td>
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<td>Prof. dr Petar Vuleković</td>
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<td>Doc. dr Dejan Ivanov</td>
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<tr>
<td>34.</td>
<td>Dr Dragana Radovanović, Assistant pripravnik</td>
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<tr>
<td>35.</td>
<td>Dr Sanja Vinković, Associate u nastavi</td>
</tr>
<tr>
<td>36.</td>
<td>Dr Zoran Gojković, Associate u nastavi</td>
</tr>
<tr>
<td>37.</td>
<td>Dr Vladimir Harhaji, Assistant pripravnik</td>
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<td>38.</td>
<td>Dr Ivan Levak, Assistant pripravnik</td>
</tr>
<tr>
<td>39.</td>
<td>Dr Mladen Protić, Assistant pripravnik</td>
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<td>40.</td>
<td>Dr Aleksandar Glühović, Assistant pripravnik</td>
</tr>
<tr>
<td>41.</td>
<td>Dr Mladen Jovanović, Assistant pripravnik</td>
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<tr>
<td>42.</td>
<td>Dr Đurđko Manić, Associate u nastavi</td>
</tr>
<tr>
<td>43.</td>
<td>Dr Nataša Janjić, Associate u nastavi</td>
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<tr>
<td>44.</td>
<td>Dr Arsen Uvelin, Associate u nastavi</td>
</tr>
<tr>
<td>45.</td>
<td>Dr Dragan Nikolić, Associate u nastavi</td>
</tr>
<tr>
<td>46.</td>
<td>Dr Lazar Velicki, Associate u nastavi</td>
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<tr>
<td>47.</td>
<td>Dr Gordana Jovanović-Kalezić, Associate u nastavi</td>
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</table>

Chief of department
Prof. dr Miroslav Milankov
ensuring
**STUDY PROGRAMME**
Integrated studies of dentistry

**DEPARTMENT**
Department for otorhinolaryngology

**NAME OF SUBJECT**
Otorhinolaryngology

**STATUS OF THE SUBJECT**
Compulsory

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

<table>
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<th>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>No. of tests</th>
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**Methods of conducting teaching**
Theoretical lectures, seminars, practical exercises

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**

2. Injuries ear. Foreign bodies of external hearing canal and cerumen.
3. Acute inflammation of the outer and middle ear
4. Chronic inflammation of the middle ear
5. Otopathies
6. Inner ear disease. Benign and malignant tumors of the outer, middle and inner ear
7. Audiology. vestibulology
8. Anatomy and physiology of the nose and paranasal cavities. Congenital and acquired malformations of the nose
10. Injuries persons
12. Acute and chronic inflammation of the paranasal cavities. Complications of inflammatory paranasal cavities
13. Rare diseases of the nose and paranasal cavities. Tumors of the nose and paranasal cavities)
15. Congenital anomalies of the oral cavity and pharynx. Violations of the oral cavity and pharynx. Inflammatory diseases of the oral cavity. Autoimmune diseases of the oral cavity
17. Diseases of the language. Tumors of the oral cavity. Tumors language
19. Tumors and epileptic mezeofarinks.
20. Anatomija and laryngeal physiology. Diagnostic methods in laringologiji Fonijatrija symptoms and laryngeal disorders, voice and speech, congenital malformations laryngeal
21. Laryngeal edema. Laryngeal paralysis. Laryngeal trauma.
22. Acute and chronic inflammatory processes of the larynx
23. Benign tumors of the larynx. Pseudotumor larynx. Malignant tumors of the larynx and hipoifarinks
24. Fundamentals fonijatrija
30. Benign and malignant tumors of the salivary glands.

**Practical teaching – methodical units**

1. Introduction to practical Otorhinolaryngology classes. Otorhinolaryngology history.
2. Job. (Butt mirror, light source, the position of patients. Optical aids. Direktoskops. Microscope)
3. Overview of the nose, mouth and orofarinks, ear, larynx, neck
4. Interventions in rinologiji (extraction of foreign bodies of the nose, Protz, this method of evacuation secretions from the nose and sinuses, Aerosol Therapy of rinominuzitisa, the application of nose drops). X-ray recordings of the nose and paranasal cavities - the
19. Impedancmetria, tympanometry depicting typical guilty, a reflex of the stapedius muscle.
22. Treatment of acute inflammation of the larynx, intubation therapy. Treatment of acute edema of larynx in children and adults, subglottis laryngitis, Quincke’s edema of the larynx.
25. Foreign body in the airway, diagnosis and extraction of foreign bodies. Interventions in the oral cavity and throat, incision and sinus surgery.
27. Foreign bodies in the esophagus, diagnosis and extraction of foreign bodies. Interventions in the oral cavity and maxilla. Local tolaeta, nutrition patients with salivary gland.
28. Corrosive damage to mouth, pharynx and esophagus, first aid for corrosive damage, diagnosis and treatment of corrosive damage.

**RECOMMENDED READING**

|---|---|

**Evaluation of students’ work – No. of points per individual activity**

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<tr>
<th>Lectures</th>
<th>Exercises</th>
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**List of teachers and assistants**

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<th>Lecturer</th>
<th>Professor</th>
<th>PhD</th>
<th>Associate prof.</th>
<th>Professor</th>
<th>Scientist</th>
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* Points test and papers are included in the points for the written examination.

Chief of department  
Prof. dr Rajko Jović. ensuring
### Goal

Goal of the subject is to teach the student for the treatment of diseases of hard dental tissue in clinical conditions.

### Knowledge

Skills are gained on the practical teaching of clinical work with independent control of the working phase. The subject continues in the next semester.

### Purpose

The program is the core subject area of dentistry that includes the treatment of disease of hard tissue and dental pulp of teeth reversibilnh changes.

At the end of the exercises from the diseases of teeth and the student should:
1. Overcome a history and general dental patients
2. Government of diagnostic procedures related to diseases of hard dental tissue
3. Preparation of master fields
4. Theoretical and practical knowledge of materials show that the temporary and definitive closure of Cavity preparation
5. Theoretically and practically demonstrate that knowledge and instruments and fixation mode during Cavity preparation

### Content of the Subject:

#### Theoretical teaching – methodical units

- Biology of teeth. Material and function dental pulp.
- Diagnosis and differential diagnosis of dental pathology.
- The mechanisms of emergence and perception dentinskog and pulpnog pain.
- Histopathology pulpodentin complex.
- Deep caries, the clinical picture, diagnosis and differential diagnosis. Treatment of deep caries, and indirect means for covering the pulp.
- Traumatic and arteficial damage dental pulp, the clinical picture. Therapy, the means for direct pulp covering. Pulp healing of wounds. The course, prognosis and evolution.
- Protective surfaces
- The etiology and pathogenesis pulpopatiy.
- Symptomatology and diagnosis of diseases of dental pulp.
- Odontalgija
- Classification of dental pulp diseases.
- Clinical picture of inflammatory process of dental pulp, course and prognosis.
- Regressive and degenerative changes pulpnog tissue.
- Necrosis and gangrene dental pulp.

#### Practical teaching – methodical units

- Job Title, instruments for dry working field
- Dental history, patient consent, patient rights and responsibilities
- Clinical examination of the patient, entering data in the dental board
- Diagnosing caries (anamnesis, inspection, sounding)
- Cavity preparation for amalgam meet, placing temporary fillings
- Cavity preparation for amalgam meet, entering and placing cement base
- Cavity preparation for amalgam fill in the class (base, setting the final construction)
- Cavity preparation for amalgam meet class II (placing the substrate, the placement matrix and interdentalnih Kocic, placing the final construction)
- MOD Cavity preparation for amalgam fill (background set, setting the matrix and interdentalnih Kocic, placing the final construction)
- Cavity preparation for adhesive and set about fulfilling the enamel / dentine adhesives Therapeutic procedure with deep caries (diagnosis and treatment of deep lesions kariozne, setting means for covering indirect pulp)
- Finish definitive meet

### Recommended Reading

- Endodoncija, V.Filipović i sar., III izdanje, Univerzitet u Beogradu 1996
### Evaluation of students’ work – No. of points per individual activity

<table>
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<th>Pre-exam obligations</th>
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</table>

1. Doc dr Ljubomir Petrović
2. Doc dr Larisa Blažičić
3. Doc. dr Tatjana Brkanić (u izboru)
4. Asst. mr Ivana Stojšin
5. Asst. Milan Drobac
6. Asst. Bojan Petrović (u izboru)
7. Dr Igor Stojanac, Associate u nastavi
8. Dr Ivana Kantardžić, Associate u izboru
9. Dr Karolina Vukoje, Associate u nastavi
10. Nebojša Đurić, student doktorskih studija
11. Tanja Tripković, student doktorskih studija

Chief of department
Prof. dr Dubravka Marković, ensuring
30. (StIII-PRST) PREVENTIVE DENTISTRY

**STUDY PROGRAMME**: Integrated studies of dentistry

**DEPARTMENT**: Department for dentistry

**NAME OF SUBJECT**: PREVENTIVE DENTISTRY

**STATUS OF THE COURSE**: Compulsory

<table>
<thead>
<tr>
<th>Condition</th>
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**Methods of teaching**: Lectures and exercises

**GOAL**: Goals continue to ensure that the student after the completion of the fifth semester will be familiar with the methods of diagnosis and containment of fear in dental clinics, trained to diagnose the situation and propose measures and methods for maintaining oral hygiene, to set indications and application of prophylactic measures with a purpose to prevent the appearance and progression of oral diseases.

**PURPOSE**: Knowledge

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

**Skills**

1. grasp, 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

**CONTENT OF THE SUBJECT: Theoretical teaching – methodical units**

- Introduction to preventive dentistry. The role and possibilities of oral hygiene in maintaining oral health
- Social 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. Funds for the maintenance of oral hygiene
- Methods of cleaning teeth, local application of fluoride prophylaxis of oral disease: definition, significance.
- Biological protection mechanisms in the oral cavity. Characteristics of the oral cavity of healthy tissue (mucosa, gingival, periodontal tissue, enamel, pulp-dentinsko complexes, cement).
- Clinical aspects of developing mouth and teeth. Chronology of appearance and the replacement teeth.
- Protective role of saliva. Composition, physical and chemical protection, the role of remineralisation. Protective role. Clinical significance of secretion of saliva stimulation.
- Diagnostic planning needs and prophylaxis of oral diseases (periodontitis, caries, orthodontic irregularities, violations of the mouth and teeth).
- Prophylactic measures in prevention of periodontitis. Prophylactic measures in prevention of caries
- Prophylactic measures in prevention of orthodontic anomalies chemoprophylaxis of oral diseases
- Preventive Dentistry. Introduction, definition, significance and tasks. Levels and Prevention. The ratio of preventive dentistry to dental and other medical disciplines.
- Caries etiology. Background research. Theory. Modern understanding. Primary and secondary factors in the etiology of 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
- Diagnostic risk for disease and supporting soft tissue. Risks for the emergence of periodontitis. Risks for the occurrence of oral cancer
- Contemporary developments and trends of preventive dentistry

**Practical teaching – methodical units**

72
The importance, role and possibilities of oral hygiene in maintaining oral health. The problem of fear and anxiety. Admission of patients. Diagnostic behavior, fear and anxiety.

Psychological types of children. Methods of preparing children for dental use. The role of preventive services in combating the fear and anxiety.

Diagnostic habits in oral hygiene. Taking anamnesis, observation of the patient in oral hygiene. Taking anamnestic data on oral hygiene, diagnostic habits, habits of control patients in oral hygiene (brushing your teeth observation techniques).

The main means of oral hygiene-brushing. Introduction interdental stimulators, toothpick, devices with liquid and jet li.

Methods of cleaning teeth. Training methods of cleaning teeth in models.

The main means of oral hygiene for teeth-thread, thread technique using toothpaste. Getting to know the different types of dental teeth. Training techniques use of seams on the model, training patients to use threads.

Diagnostic plaque. Plaque indices. Plaque staining, determination of PLI, a conversation with the patient on the plaque and the cleanliness of teeth, plaque removal machine.

Preventive services and preparation for using fluoride.

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

Prescribing fluoride prescription. Local application of fluoride (dissolved, they, varnishes)

Diagnostic risk of caries on the basis of analysis of diet, oral hygiene, quantity, quality and properties of saliva. Diagnosing risk in the presence of microorganisms in the saliva.

Evaluation of oral hygiene (PI), gingival (GI, bleeding index of the sounding), Book of tests for risk assessment.

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


Health educational work. diagnostic status of oral health, setting the indication and planning applications profilakctic measures.

Making intraoral protective.
31 (StIII-STMT) DENTAL MATERIALS

<table>
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<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies of dentistry</th>
</tr>
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<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department for stomatology</td>
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<tr>
<td>NAME OF SUBJECT</td>
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**Year of studies | Winter term (No.of the lessons per week) | Summer term (No.of the lessons per week) | No.of tests | No.of seminars | No.of seminars |
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**Methods of teaching**
- Lectures

**GOAL**

Introduction to basic knowledge of the building materials, materials for prints and those materials used in certain phases of prosthetic work. Also introduction to materials for permanent and temporary fill.

**PURPOSE**

Knowledge:
- Chemical properties, physical properties and clinical application of materials in dentistry

Skills:

**Theoretical teaching – methodical units**

- Standards of dental materials. EU Directive, the CE mark, ISO standards, GCP, GMP standard
- Chemical elements of importance for dental materials
- Chemical connections. Primary, valencione and medjumolekulske links
- Reaction bonding of dental materials. Neutralization as a basic chemical reaction in the process of hardening cement. Helatation as the main reaction in the process of hardening of zinc oxide-eugenol paste, EBA and polikarboksilatnih cemenata. Polymerization as the main reaction in the hardening of acrilate, composites and elastic material or in combination with the neutralization and helatacijom of poly-carboxilat and voice-jonomer cement
- Chemistry of print material. The chemical composition and hardening processes of thermoplastic mass, ZOE pastes, reversible and irreversible hidrokoloida, silicone, polyethers and polisulphide.
- Chemistry materials meet. The chemical composition and the process of hardening of amalgam, cement, composites and komponera.
- Intremollecular force. Origin of addiction, and repulsive and attractive force of the distance, the movement of molecules depending on the energy, thermal expansion. Influence intermolecule force of physical properties.
- The behavior of materials under the influence of heat. Change physical properties, phase transitions. Phase diagram. Thermal expansion and contraction (linear relationship between the volume coefficient of expansion, the absolute and relative changes in dimensions)
- Adhesion. Principles of adhesion, chemical and micromechanical adhesion, surface adhesion, problems with adhesion, capillary phenomena
- Cement. Classification, characteristics. Zinc-phosphate cement, cinkoksid eugenol cement, cement silikophosfate, policarbn and voice-jonomer cement
- Dental amalgam. Requirements, division, amalgamation, clinical characteristics, treatment of clinical work with amalgam, method of packaging, dosing, and factors that affect the quality of amalgam construction.
- Composite materials. The composition, classification, advantages and disadvantages, adhesive systems, componers, ormocers, "smart composites", liquid and composites for sealing of fissures
- Materials for the early meet. Types, characteristics, temporary fill based on zinc oxide. Advantages and disadvantages. The importance of materials for temporary fill in the various therapeutic procedures.

**Practical teaching – methodical units**


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### Evaluation of students' work – No. of points per individual activity

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### List of teachers and assistants

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<thead>
<tr>
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<tr>
<td>1. Prof dr Ljubiša Džambas</td>
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<td>2. Prof. Dr Teodor Atanacković FTN</td>
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<td>3. Prof. Dr Aleksnadar Đordjević PMF</td>
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<td>4. Prof. Dr Dubravka Marković</td>
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<td>5. Doc. Dr Ljubomir Petrović</td>
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<td>6. Doc. Dr Larisa Blažić</td>
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Chief of department
Prof. Dr Dubravka Marković, ensuring.
CLINICAL IMMUNOLOGY

STUDY PROGRAMME
Integrated studies of dentistry

DEPARTMENT
Internal Medicine

NAME OF SUBJECT
CLINICAL IMMUNOLOGY

STATUS OF THE SUBJECT
elective course

Condition none

<table>
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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 introduce students to the principles of creation caused immune diseases, methods of diagnosing the disease and the principles and theoretical and practical aspects of the immune therapy of disease. The practical result of education is to enable students to master skills for practical work in practice, with the development of critical facts and the conditioned thinking, and training students for scientific - research work in the field of immunology.

PURPOSE
Knowledge
Introducing students to the mechanisms and functional disorders of the immune system functions, as well as primary and middle uslovnjenim genetic factors that lead to the occurrence of immune-caused diseases. Ways of diagnosing this group of diseases, the basic therapeutic methods in the treatment of immune diseases caused by. Complications immunomodulatory and immunosuppressive therapy.

Skills
Application approved practical knowledge in medicine: placing doubt on the existence of the immune system caused by disease, methods to confirm the suspicions caused by the creation of immune diseases. Basic and clinical laboratory methods to confirm the existence of immunological diseases. Learning of the basic methods of treatment. Application of analytical and synthetic way of thinking as a basis for proper classification of immune diseases caused by: the possibility of - clinical manifestations - proof placed doubt - therapy - treatment of complications.

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units
1. Introduction to Immunology, history of clinical immunology. Summary of the functional unity of the cellular and humoral components of the immune system and complement system. Antigenic presentation, intercellular communication, receptor citokini.Innate and acquired immunity.
2. Functioning of disorders of the immune system. Types hypersenzitivnih reactions in clinical practice.
4. Basics occurrence autoimmune process and system autoimmune disease.
5. Vasculitis and autoimmune diseases nephrological events.
6. Reumathological caused by autoimmune disease.
7. Transplantaciona immunology, clinical transplantation.
8. Hematological diseases in whose grounds the immune disorder.
9. Endocrinologic and gastrointestinal diseases in whose grounds the immune disorder.
10. Tumor immunology, tumor immunodiagnosis of disorders, immune therapy of tumors.
11. Neurological diseases in whose grounds the immune disorder.
15. Sistemne anaphylactic reactions, its importance in clinical medicine, prevention, diagnosis and treatment
(Seminar)

Practical teaching – methodical units
Exercises are held in the form of 2 one-week block of classes in the summer semester. The first week at the Clinic of Nephrology and Clinical Immunology KC Vojvodina, the other week, divided into KCV Clinic of Dermatology, Clinic for diseases ear, nose and throat KCV and the Institute for Pulmonary Diseases of Vojvodina

1. Immunological laboratory: protein electrophoresis, radijar immune diffusion, agglutination technique proving rheumatoid factor and C reactive of proterins
2. Immunological laboratory: indirect immunofluorescence (heterologni biological substrates, tissue culture, cell smear), diagnostic methods immunofluorescentna deposit of immune complexes in tissues, ELISA techniques
3. Clinical and immunological rheumatoid patients.
4. Clinical examination and treatment of patients with transplantiranim authorities.
5. Hypersensitivity skin test status, clinical examination of patients with skin manifestation of immune diseases, diagnosis and treatment.
6. Functional tests in lung respiratory atopic diseases, clinical examination and treatment of immune system caused by lung
disease.
7. Diagnosis and treatment of systemic atopic reaction. (seminar exercise)

**RECOMMENDED READING**

<table>
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<tr>
<td>Jasmina Ljaljević i saadnici. Klinička imunologija</td>
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**Evaluation of students' work – No. of points per individual activity**

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**List of teachers and assistants**

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<tr>
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<tr>
<td>Associate</td>
<td>1. Prof. dr Igor Mitić</td>
</tr>
<tr>
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<td>2. Prof. dr Tatjana Ilić</td>
</tr>
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<td>Associate prof.</td>
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<tr>
<td>Scientist</td>
<td>7. Dr Dejan Ćelić, Associate u nastavi</td>
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Chief of department
Prof. dr Igor Mitić
### 32. MEDICAL PSYCHOLOGY (StIII-IZPR)

<table>
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<th>STUDY PROGRAMME</th>
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<tr>
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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**
- 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.

- 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

- The role of medical psychology in medicine - definition and objectives of the course
- 2. One and the environment - as a man will biopsychosocial
- 3. Development and structure of personality
- 4. Physiological basis of mental life - mental function
- 5. Mental mechanisms and their role - aggression and anxiety
- 6. Defense Mechanisms
- 7. Health and Disease
- 8. Stress and physical disease
- 9. Patient / patient
- 10. Doctor / health worker
- 11. The ratio of patients and doctors / health workers
- 12. Sick child, adolescent as well as patient
- 13. Old people and disease
- 14. Patients and society
- 15. Psychological aspects of pregnancy and childbirth
- 16. The psychological aspects of hospitalization
- 17. People with special needs - the relationship to other physical or mental diseases
- 18. Family Medicine - profile doctor / health worker in the family
- 19. On death and dying

#### 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. Anxious and aggressive approach to patient / patient escort
- 5. Giving information to patient and family about the disease
- 6. Communication of family doctors / health workers in family
- 7. Preparing patients for diagnostic and therapeutic processes
- 8. Relationships and communication in teamwork - Workshop

**RECOMMENDED READING**

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1. Prof. dr Ljiljana Borišev
2. Prof. dr Aleksandar Knežević
3. Prof. dr Dragan Mitrović
4. Prof. dr Gordana Mišić-Pavkov
5. Prof. dr Olga Živanović
6. Prof. dr Aleksandra Nedić
7. Prof. dr Branislava Soldatović-Stajić
8. Prof. dr Mina Cvjetković-Bošnjak
9. Doc. dr Aleksandra Dickov
10. Asst. pripr. Vesna Vasić-Zarić
11. Dr Jasminka Marković, Associate in practice

Chief of department

Prof. dr Aleksandra Nedić
32. (StIII-IZPR) DENTAL CARE IN COMMUNITY

**STUDY PROGRAMME** Integrated studies of dentistry

**DEPARTMENT** Department for dentistry

**NAME OF SUBJECT** DENTAL CARE IN COMMUNITY

**STATUS OF THE SUBJECT** Elective

**Condition** none

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**Methods of teaching** Theoretical and practical

**GOALS**

**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 and methodical teaching units

3. Promotion of oral health, health education, motivation of individuals and society.

**Training - methodical unit:**

Topic 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.

Areas from which can be taken of seminar topics:

1. Oral Pathology Research
2. Promotion of oral health at the local level.
3. Health education in dentistry
4. Strategy for the provision of oral health
5. Indicators of oral health
6. Fluoridation of drinking water
7. Dental care program
8. Motivation of individuals and society for the preservation of oral health
9. Financing dental care
10. Evaluation of dental care
11. Organization of dental health care

Free choice of topics by agreement with the mentor.

**RECOMMENDED READING**

<table>
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<tr>
<th>Compulsory</th>
<th>In preparation</th>
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**Evaluation of students' work – No.of points per individual activity**

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Chief of department
Prof. dr Dubravka Marković ensuring
The aim of the subject is to teach the student for treatment of hard dental tissue diseases in clinical conditions.

Knowledge
Students need to master the treatment of disease of solid tissue and dental pulp of teeth reversible changes.

Skills
Skills are gained on the practical teaching of clinical work with independent control of the working phase. Some aspects of clinical skills are integrated in subjects Endodontics I and II. During exercise the subjects of clinical diseases of teeth I and II, and Endodontics in cases I and II student, working with the control phase, the Compulsory, done 40 therapy of solid dental tissues.

At the end of the exercises from tooth diseases II student should:
1. Government of diagnostic procedures related to diseases of hard dental tissue and dental pulp
2. Theoretical and practical knowledge of materials show that the temporary and definitive closure of Cavities
3. Theoretically and practically demonstrate that knowledge assets and therapeutic protocol in treatment of deep caries

Theoretical teaching – methodical units
Clinical examination of the patient, entering data in the dental board
Diagnosing caries and dental pulp diseases
Therapeutic procedures in deep caries (diagnosis and treatment of deep lesions, setting up funds to cover direct and indirect pulp)
Cavity preparation for amalgam meet
Cavity preparation for amalgam fill in the class (base, setting the final construction)
Cavity preparation for amalgam meet class II (placing the substrate, the placement matrix and interdentalnih Kocic, placing the final construction)
MOD Cavity preparation for amalgam fill (background set, setting the matrix and interdentalnih Kocic, placing the final construction)
Cavity preparation for multi-surface fill
Cavity preparation for adhesive and set about fulfilling the enamel / dentinskih adhesives. Finish definitive construction

Additional Reading

Evaluation of students' work – No.of points per individual activity
<table>
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List of teachers and assistants

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<td>3.</td>
<td>Doc. dr Tatjana Brkanić (u izboru)</td>
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<td>6.</td>
<td>Dr Igor Stojanac, Associate u nastavi</td>
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<td>Dr Ivana Kantardžić, Associate u nastavi</td>
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<td>8.</td>
<td>Dr Karolina Vukoje, Associate u nastavi</td>
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Chief of department  
Prof. dr Dubravka Marković, ensuring
34. (StIV-ENDD) ENDODONTRICS I

STUDY PROGRAMME | Integrated studies of dentistry
DEPARTMENT | Department for dentistry
NAME OF SUBJECT | ENDODONTRICS I
STATUS OF THE | Compulsory
Condition | Diseases of teeth - Clinics II (Exam)

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Methods of teaching | THEORETICAL AND PRACTICAL

GOAL | Predmeta je da student savlada terapiju endodonti i periradikularnog područja

Knowledge | Student treba da savlada osnovna i nova sa knowledge iz endodontije, sadašnjem i budućem razvoju struke, dijagnostici bolesti, instrumentima i postupcima u terapiji periradikularnog područja.

Skills | Skills se stiču na praktičnoj nastavi samostalnim radom uz kontrolu radnih faza

Na kraju praktične nastave iz Endodontije I student treba da:
1. Vlada dijagnostičkim postupcima vezanim za oboljenja endodonti i periradikularnog područja
2. Ovlada pripremom polja rada
3. Teorijski i praktično pokuša da poznaje instrumente i materijale u endodontiji
4. Teorijski i praktično pokuša da poznaje instrumentaciju endodontskog prostora na modelu

Theoretical teaching – methodical units
1. Apeksni parodontitisi, dijagnostički postupci, podela, klinička slika
2. Uvod u endodontsku terapiju
3. Morfologija cavuma dentis
4. Endodontski instrumenti (iso standard)
5. Aseptičan rad u endodontiji
6. Endodontska preparacija-protokol rada
7. Definitivna opturacija endodontskog prostora

Practical teaching – methodical units
1. Dijagnoza i analiza rtg nalaza
2. Plan terapije
3. Trepanacija
4. Formiranje pristupnog kaviteta
5. Ispitanje inicijalne prohodnosti
6. Odontometrija
7. Instrumentacija kanala korena (tehničke izvodjenja)
8. Irrigacija kanala korena
9. Mediacija
10. Opturacija kanala korena

RECOMMENDED READING
Compulsory | 1. Endodontija, V. Filipović i sar., III izdanje, Univerzitet u Beogradu 1996

Evaluation of students' work – No.of points per individual activity

Pre-exam obligations | Final exam | Total
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List of teachers and assistants

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Chief of department
Prof. dr Dubravka Marković, ensuring
35. CLINICAL PROSTHECTICS I (StIV-KLPR)

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<th>Theoretical and practical</th>
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**Goal**

Acquisition of knowledge on basic biomedical and technological mobileprotetic skills and skills which are the foundations of clinical work in a conventional or implant-prosthesis therapy partially or totally teethless jaw.

**Knowledge**

Curriculum mobile prosthetics allows students to learn:
- The importance of oral health and treatment needs of implementation mobilnoprotetičke
- Tell nonphysiological and pathological conditions stomatognatog system
- Understand the functional anatomy and physiology of partially or totally edentate jaw
- Diagnostic procedures and tests relevant to the implementation mobilnoprotetičke therapy
- Set the indication and the corresponding Based on her treatment plan mobileprotetic
- About the impact of defense mobileprotetic therapy on dental and health system patients
- Understand and connect the laboratory and clinical procedures mobileprotetic therapy
- Materials and instruments and laboratory or clinical equipment and appliances
- Determine the type of material which will be implemented mobilnoprotetička therapy
- Implement mobileprotetic therapy with purpose of improving oral health through a satisfactory period of time
- With literature data, improve knowledge and apply them in everyday life

**Skills**

- Materials and processing technologies and their application in laboratory and clinical mobile prosthetics.
- Physiology stomatognatog system, which along with knowledge about the normal function includes Knowledge about diagnosis and treatment mobileprothetic dysfunction.
- Biomechanics stomatognatog system, and the impact mobileprothetic works on it.
- Conventional mobileprotetic therapy and rehabilitation stomatognatog system.
- Implant-prosthetic treatment totally edentate jaw

Clinical-epidemiological research on the possibilities of implementing mobileprothetic conventional therapy procedures

Knowledge and skills of diagnostic, therapeutic and laboratory procedures developed lectures, seminars and clinical tests and exercises in small groups of students.

**Theoretical teaching – methodical units**
TOTAL PROSTHESIS-anatomical material of the upper and lower jaw. Anatomical material and kinektics temporomandibular joint. The position and movement of the lower jaw. Features dental system. Ledge of the upper and lower total prosthesis. Soft tissue and muscle activity. Preliminary (anatomical) and functional image of the upper and lower jaw edentate. Retention factors of total prosthesis. Factors total prosthetic stabilization.

- Guidelines for determining the position of front teeth. Guidelines in determining the position of lateral teeth.
- Specific skeletal jaw relationship. Determining the position of the teeth teethless patients with skeletal Class 1.2.3.
- Clinical test-set teeth in bezubih patients. Concept (model) bilateral balanced occlusion.
- Final laboratory procedures in the preparation of complete dentures. Temporary and imedijatna total prosthesis. Supradentalne prosthesis. Implant - prosthetic aspects teethless rehabilitation patients.
- Changes in the soft tissues of the holders of complete dentures. Complications during the wearing of complete dentures. Geriatric aspects of therapy in teethless patients.


- Other forms of partial dentures. Supradentalne, two-piece, swing-lok, reduced, unilateral partial denture. Flexible partial dentures. Partial denture on implants.
- Aesthetics of partial dentures.

Practical teaching – methodical units

TOTALNI PROSTHESIS-history, status, clinical examination, treatment plan adoption; Preparing the patient for the treatment total prostheses. Selection and evaluation of a spoon for prints; print preparing materials and taking the anatomical images.
- Test and shaping individual tablespoons of the above and / or lower jaw edentate. Functional images teethless jaw.
- Determining inter-jaw relations in the treatment of total prosthesis.

The transfer-fixing and working models Buccal onions; Working with the articulator of secondary value.

Analysis model and inter-jaw relations in the articulator; Determination of shape, size and color of teeth.
- Control set of teeth in complete dentures, functional, aesthetic factors and individualization set.

Submission-ready complete dentures; control and correction of conducted therapy.

Fracture-repair base total prosthesis; total prosthesis direct and indirect method.

Removable partial denture: Preparation of the patient and working spaces for mobileprothetic therapy; Meeting Protocol.
- Analysis of X-ray images; Adoption of the plan of treatment, preparation of supporting tissue partial denture.

- Choosing a spoon; anatomical image of the upper and / or lower limits jaw. Analysis of study models;
- Test and shaping individual tablespoons of the above and / or lower jaw partially edentate. Functional images.

Trip-sized base removable partial denture; resource planning stabilization and retention of partial prosthesis; Determination of form and technique fresed elements in the combined therapy of partial dentures.

- Determining inter-jaw relations in the treatment of partial dentures.

The transfer-fixing and working models Buccal onions. Working with the articulator of secondary value.

Test-model partial denture; Clinical Trials put teeth in partial denture.

- Submit final partial denture; control and maintenance of partial dentures.

<table>
<thead>
<tr>
<th>RECOMMENDED READING</th>
<th>Compulsory</th>
<th>Additional</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Evaluation of students' work – No.of points per individual activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-exam obligations</strong></td>
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<tr>
<td>Lectures</td>
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<thead>
<tr>
<th>List of teachers and assistants</th>
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<tbody>
<tr>
<td>Associate</td>
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</table>

Chief of department
Prof. dr Dubravka Marković ensuring
# 36. (StIV-OHIR) ORAL SURGERY

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies of dentistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department for dentistry</td>
</tr>
<tr>
<td>NAME OF SUBJECT</td>
<td>ORAL SURGERY</td>
</tr>
<tr>
<td>STATUS OF THE</td>
<td>Compulsory</td>
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</tbody>
</table>

**Condition**: Special Pharmacology (exam), Radiology (for exams), dental anesthesiology (exam), Surgery (exam)

<table>
<thead>
<tr>
<th>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>No. of tests</th>
<th>No. of seminars/seminars</th>
<th>No. of seminars/seminars POINTS</th>
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<tbody>
<tr>
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<td>Exercises</td>
<td>Lectures</td>
<td>Exercises</td>
<td>2</td>
</tr>
</tbody>
</table>

**Methods of teaching**: Lectures, Exercises opening, working Exercises, demonstration Exercises

**GOAL**
Managing knowledge in the field dentogened infections, dental traumatology and alveolar extensions, preprotetical surgery, surgical orthodontic cooperation, painful condition n. trigeminal and the basic skills of giving local anesthesia and tooth extraction

**PURPOSE**
Knowledge Diagnosis of pathological conditions and determining the surgical indications for oral work. Prevention of tooth extraction and giving local anesthesia, and their treatment.
Skills Training for self-giving of local anesthesia and the ordinary tooth extraction. Executing intaoral incision in the vestibulum.

**Theoretical teaching – methodical units**

1. Introduction. The concept and objectives of oral surgery. Town of oral surgery in dental health care and education of students.
3. Tooth extraction. Indications and contraindications for tooth extraction. Principles of extraction of teeth. Phase of uncomplicated extraction of teeth.
4. Tooth extraction. Instruments extraction of teeth (pliers, levers). Extraction of certain teeth.
7. Injuries teeth, alveolar ridge and jaw during extraction of teeth. Injuries teeth. Wrap alveolar ridge and TUBER. Wrap the jaws. Luksacija mandible.
13. Dentogened infection. Basic principles of treatment (hormonal and surgical).
2. Design dentoalveolar incision in surgery. Indications and contraindications for the selection of cut.
3. The concept and definition. Etiological factors. Clinical features and diagnosis

Practical teaching – methodical units

2. Test (3 hours) - Inervacione zone. Techniques giving plexus anesthesia and mandibular anesthesia indirect method.
3. Test (3 hours) - history, examination instruments, dental extraction, tooth extraction.
5. Demoonstracione Exercises (9 hours) - View and assistance when performing oral surgical procedures in the operating room.

RECOMMENDED READING

Compulsory

Additional

Evaluation of students’ work – No.of points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
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<tbody>
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<td>Lectures</td>
<td>Exercises</td>
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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>PhD</th>
<th>Associate prof.</th>
<th>Professor</th>
<th>Scientist</th>
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</tbody>
</table>

1. Prof dr Srečko Selaković
2. Doc. dr Siniša Mirković
3. Asst. mr Ivan Šarčev
4. Asst. Branislav Bažkin

Chief of department
Prof. dr Dubravka Marković ensuring
37. (StIV-OMED) ORAL MEDICINE

STUDY PROGRAMME  Integrated studies of dentistry

DEPARTMENT  Department for dentistry

NAME OF SUBJECT  ORAL MEDICINE

STATUS OF THE SUBJECT  Compulsory

Condition  Special pharmacology (for exams), General Medicine (exam)

Year of studies  Winter term (No.of the lessons per week)  Summer term (No.of the lessons per week)  No.of tests  No.of seminars seminara  No.of seminars POINTS

fourth  2  2  1  2  2  -  6,0

Methods of teaching  Theoretical Lectures-practical work on patients

GOAL  Educating students for independent practical work on patients with oral mucosal diseases, their diagnosis, treatment and prevention.


CONTENT OF THE SUBJECT: Theoretical teaching – methodical units


Practical teaching – methodical units


RECOMMENDED READING  Compulsor y


Additional


Evaluation of students' work – No.of 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  Professor  PhD  Associate prof.  Professor  Scientist
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>1. Prof. Dr Marija Bokor-Bratić</strong></td>
<td><strong>2. Dr Radoslava Boberić – Vasić, Associate u nastavi</strong></td>
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</tbody>
</table>

Chief of department
Prof. dr Dubravka Marković, ensuring
38. (StIV-DST) CHILD DENTISTRY

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Studies of Dentistry</th>
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<td>DEPARTMENT</td>
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<td>SUBJECT</td>
<td>CHILD DENTISTRY</td>
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<tr>
<th>Condition</th>
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<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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Methodology

**AIM**

Students should gain basic knowledge in Child 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 Child Dentistry.

**Lectures – 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 growth: mechanism, theories, chronology, marking, histological and anatomic features of milk and permanent teeth.
6. X-ray in child dentistry, types of shooting, indications and protection.
9. Filling-up materials in child dentistry: materials for temporary and permanent filling. (amalgam, composite, gas ion meters)
1. Child dentistry: definition, importance, aims and objectives. Particularities in child treatment, pain control, first time visit at the dentists.
2. Psychological types of children: establishing and special approach.
3. Diagnosis of oral cavity and teeth diseases of children: history of disease, examination, diagnosis and continuous check up.
4. X-ray diagnosis in child dentistry: types of shooting, reading of the records, indications, child protection while shooting.
5. Treatment planning in child dentistry: variations according to teeth types (milk, mix, permanent).
7. Special preparation or oral cavity with milk teeth: basic rules and principles.
8. Treatment of milk teeth caries: cavity preparation, advanced levels of milk teeth caries.
12. Specific preparation of oral cavity with permanent teeth.
15. Treatment of the teeth with partially developed roots: indications, techniques.
17. Medications and substrates in child dentistry: conditions required for substrates and medications for oral cavity.
18. Materials used for filling: materials for temporary and permanent filling. (amalgam, composite, gas-ion meter cements)
22. Injuries of milk and permanent teeth: classification, first visit procedure.
28. Specific treatment of special ability children: special visits and treatments.

### RECOMMENDED READING

<table>
<thead>
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| Additional |

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

<table>
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<th>Pre-exam activities</th>
<th>Final exam</th>
<th>Total</th>
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<tbody>
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### List of professors and assistants

<table>
<thead>
<tr>
<th>Associate/prof. of professional studies</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Assistant prof.</th>
<th>Associate prof.</th>
<th>Full professor</th>
<th>scientist</th>
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<tbody>
<tr>
<td>1. Assistant Prof. Dr Duška Blagojević</td>
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<td>2. Assistant MA Ivan Tušek</td>
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<td>3. Assistant MA Sanja Vujkov</td>
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<tr>
<td>4. Associate Bojan Petrović</td>
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The Head of The Department
Prof. Dr Dubravka Marković, ensuring
39. (StIIV-PDNT) PERIODONTAL DISEASES

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Dentistry</th>
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<tr>
<td>DEPARTMENT</td>
<td>Department of dentistry</td>
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<tr>
<td>SUBJECT</td>
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<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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<tbody>
<tr>
<td></td>
<td>Lectures</td>
<td>Practice</td>
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<tr>
<td>Methodology</td>
<td>Lectures</td>
<td>and practice</td>
<td>Lectures</td>
<td>and practice</td>
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</tbody>
</table>

AIM: Gaining basic knowledge of aetiology, pathogenesis and classification of periodontal diseases.

PURPOSE: Gaining basic knowledge of aetiology, pathogenesis and classification of periodontal diseases, as well as basic methods used in establishing diagnosis and treatment.

SKILLS: Gaining manual dexterity in working with periodontal instruments, on dental phantoms and patients.

CONTENTS OF SUBJECT:

**Lectures** – methodical units

1. Introductory lecture
2. Anatomy of parodontium
3. Anatomy of parodontium
4. Classification of the diseases of parodontium
5. Epidemiology of the diseases of parodontium
6. Aetiology of gingivitis
7. The clinical image of gingivitis
8. Aetiology of peridonotopatia
9. Aetiology of peridonotopatia
10. Pathogenesis of peridonotopatia
11. Pathogenesis of peridonotopatia
12. Pathogenesis of peridonotopatia
13. The clinical image of peridonotopatia
14. The clinical image of peridonotopatia
15. Differential diagnosis of peridonotopatia

**Practice** – methodical units
1. Basic features of healthy periodontal; Clinical treatment of patients with periodontal diseases- diagnosis a) personal hurts b) objective changes c) x-ray analysis
2. The use of prevention measures from spreading the infections (hepatitis, HIV...) Examination of patients with periodontal diseases- diagnosis.
3. Aetiology of periodontopatia (specific and common factors) Dental plaque ( basic properties and importance, microbiological analysis of dental plaque) Identification of dental plaque by clinical examination and colouring it. Plaque index ( Silness-Loe) aetiology of periodontopatia (specific and common factors)
4. Methods of decreasing of symptoms of periodontal inflammation. Motivation and teaching patients to perform everyday oral hygiene. Methods used for decreasing the symptoms of periodontal inflammation.
5. Establishing the level of oral hygiene- Plaque index (Silness-Loe) and the condition of gingival (GI Loe-Silness). Removal of dental plaque.
6. Dental mineral plaque, characteristics and importance: mineral plaque index (Greene-Vermillion). Instruments and techniques for removing it.
7. Concrements, features and importance; Instruments and techniques for removing it.
8. Test. Removing of mineral and all other soft dental plaques.
9. Index of oral hygiene and CPITN. Removing of mineral plaque and sub gingival concrements.
10. Removing of mineral plaque and concrements. The importance of oral hygiene, Motivation and teaching patients to perform everyday oral hygiene.
12. Removal of sub gingival deposits.
13. Removal of sub gingival deposits.
15. The test- Iatrogenic factors in aetiology of periodontopatia (detecting and elimination)

RECOMMENDED READING

Compulsory
1. KLINIČKA PARADONTOLOGIJA, Dimitrijević, Đukanović, Zelić, Leković, Ursu-Magdu, Janković, Čakić, Janković, Aleksić

Additional
1. OSNOVI KLINIČKE PARADONTOLOGIJE, Zelić
2. KLINIČKA PARADONTOLOGIJA I ORALNA IMPLANTOLOGIJA, Linde

Student evaluation—no. of points for each activity

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Practice</th>
<th>Pre-exam activities</th>
<th>Final exam</th>
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<tbody>
<tr>
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<td>Pre-exam tests</td>
<td>seminar papers</td>
<td>Other Written Oral</td>
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List of professors and assistants

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<th>Professor</th>
<th>Assistant prof.</th>
<th>Associate prof.</th>
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</table>

1. Assistant Prof. Dr Milanko Đurić
2. Assistant MA Jelena Računica
3. Assistant. Ivana Gusić
4. Associate in teaching Dr Tanja Predin

The Head of The Department
Prof. Dr Dubravka Marković, ensuring
### 40. (StIV-JZDR) PUBLIC HEALTH

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Dentistry</th>
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<td>Practice</td>
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</tbody>
</table>

Methods of teaching: Lectures, practice, seminars

**Goal**
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**

<table>
<thead>
<tr>
<th>Knowledge</th>
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<tbody>
<tr>
<td>From the field of health promotion, risk management in dental practice, health care of the employees, prevention of hospital infections.</td>
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<thead>
<tr>
<th>Skills</th>
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<tbody>
<tr>
<td>Communications, health promotion, risk analysis, prevention of dental and oral apparatus disease.</td>
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</tbody>
</table>

**Theoretical classes** - methodical units
1. Hygiene and health.
2. Health safety of drinking water.
3. Disposal of hazardous waste in accordance with hygiene.
5. Hygienic conditions for a dental surgery.
6. Energy needs of different population groups.
7. Nutrients.
8. Vitamins
9. Minerals
10. Medical nutritional prevention of dental and oral apparatus diseases.
11. The concept of sterility and sterility testing of samples.
12. Sterilization and disinfection.
13. Microbiological correctness of drinking water.
14. Microbiological correctness of provisions
15. Microbiological correctness of the items of common use and cosmetics. Microbiological correctness of hands and work surfaces swabs.
16. Viruses in the environment.
17. Epidemiology and public health.
18. Epidemiological researches.
20. Preventing and combating of infectious diseases.
22. Prevention of nosocomial infections.
23. Epidemiology of blood transmitted infections.
26. The concept and strategy “Health for all in the XXI century”.
27. Promotion of health.
29. Communication in health care.
30. Health care and factors that affect health care realization. Organization of health service.
31. Planning and programming of health care.
32. Criteria for assessing the social medical importance of diseases of mouth and teeth. Methodology for the prevention and control of mass non-infectious diseases.
34. Quality of health care. Health technology.
35. Occupational hazards and workplace risks.
36. Occupational infections.
37. Occupational skin diseases.
38. Occupational ionizing radiation damage.
40. Protection measures at work.
41. Health promotion at workplace.

### Training - methodical units

2. Hygienic conditions for a dental surgery - seminar.
3. Microbiological correctness of air – seminar.
4. Microbiological correctness of herbal preparations used as an aid in the prevention and treatment of oral infections - a seminar.
5. Display of national pathology. (1 class)
6. Prevention and control of infectious diseases in dental practice. (1 class)
7. Models of nosocomial infections researches and demonstration of the research of hospital epidemic. (1 class)
8. Methods and means of medical educational work with the demonstration of a creative workshop as a method.
9. Preparation and presentation of a health educational means and / or a method of medical educational work.
10. Making of the action plan of health educational campaign and social marketing approach in the community.
11. Expertise of working ability in order to verify occupational infectious disease.
12. Expertise of working ability in order to verify the occupational skin disease.
13. Expertise of working ability in order to verify the occupational damage caused by ionizing radiation.

All the topics of practical training last for 1 class of teaching, except teaching topics under number 1 and 4, which last for 2 classes.
<table>
<thead>
<tr>
<th>RECOMMENDED READING</th>
<th>Compulsory</th>
</tr>
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<tbody>
<tr>
<td>1. FOOD HYGIENE, authors B. Novaković, M. Miroslavljev, Edicija udžbenici, Faculty of Medicine, Novi Sad, 2005</td>
<td></td>
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<tr>
<td>2. HYGIENE AND HEALTH EDUCATION, authors B. Novaković, V. Grujić, Edicija udžbenici, Faculty of Medicine, Novi Sad, 2005</td>
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<tr>
<td>3. MEDICAL BACTERIOLOGY (General and special bacteriology), author M. Švab Vlahović and contributors, Savremena administracija, Beograd, 2005,</td>
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<td>5. EPIDEMIOLOGY – Reading recommended by Department of Epidemiology, Z. Radovanović, editor: Epidemiology, first edition, Niš, Prosveta, 2005,</td>
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<td>6. SOCIAL MEDICINE, authors Đ. Jakovljević, V. Grujić, The University of Novi Sad, Faculty of Medicine, Udžbenici 33, Novi Sad, 1995,</td>
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### Evaluation of student’s work – number of points for each activity

<table>
<thead>
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<th>Lectures</th>
<th>Practice</th>
<th>Test</th>
<th>Seminar work</th>
<th>Other</th>
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### The list of teachers and associates

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<th>Lecturer</th>
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<th>Assistant prof.</th>
<th>Associate prof.</th>
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Head of the Department of Hygiene  
Professor Budimka Novaković PhD, c.p.
### Study Program

**STUDY PROGRAM**
Integrated Studies of Dentistry

**DEPARTMENT**
Department of Dentistry

**COURSE TITLE**
AESTHETICS IN DENTISTRY

**COURSE STATUS**
Optional

**Condition**
no

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**Methods of teaching**

### 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 aesthetic requirements.

### Purpose

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

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

**Theoretical classes** - methodical units
COURSE CONTENT

I Aesthetic requirements in dentistry
   2. Color and color perception. Natural color of teeth. Color and aesthetic 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 aesthetic restorations of front teeth

III Direct aesthetic restorations of the lateral teeth

IV Indirect aesthetic 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 aesthetic restorations of endodontic treated teeth.
   3. Indications for placing pulp cleats.
   4. Types of aesthetic pulp cleats; the manner of their setting.
   5. Reconstruction of endodontic treated teeth with aesthetic crowns.

VIII Teeth bleaching
   1. Types of pigmentation and discoloration of teeth.
   2. Indications and contraindications for teeth bleaching.
   4. Bleaching of non vital teeth. Techniques in surgery. Techniques applicable in home conditions.

Training - methodical units

Cavity preparation and making of direct aesthetic restoration of the front teeth
Cavity preparation and making of direct aesthetic restoration of the lateral teeth
Cavity preparation and making of indirect aesthetic restoration
Teeth preparation and making of porcelain flakes- front teeth
Teeth preparation and making of porcelain teeth flakes - premolars
Teeth preparation and making of direct aesthetic restoration of endodontic treated teeth
Root canal preparation and placing of aesthetic pulp cleats.
Making of aesthetic crowns on endodontic treated teeth
Teeth preparation and making of non-metallic ceramic crowns
Application of bleaching teeth techniques

RECOMMENDED READING

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<tr>
<th>Compulsory</th>
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Additional

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

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Head of Department

Prof. Dubravka Marković PhD, c.p.
41. MATHEMATICAL MODELS IN DENTAL RESEARCHES (StIV-IZPR)

STUDY PROGRAM  
Integrated Studies of Dentistry

DEPARTMENT  
Department of Dentistry

COURSE TITLE  
MATHEMATICAL MODELS IN DENTAL RESEARCHES

COURSE STATUS  
optional

Condition  
no

Year of study  

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Methods of teaching  
Lectures, interactive lectures, Internet use, e-learning, practical classes, workshops. Learning based on computational problems, the analysis of cases from the practice, participation in research and developmental projects.

GOAL  
To understand and apply mathematical modeling in dental researches.

PURPOSE  
Knowledge  
After passing the exam student is expected to know the different approaches of mathematical modeling of data and to perform factors that influence the variability in dentistry as adequately as he could using the parameters of mathematical models.

Skills  
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 classes - methodical units**

1. Modeling in dentistry
2. Mathematical modeling methods in dentistry
3. The method of the smallest squares
4. Systematic 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 spline functions
8. Interpolation and approximation of functions
9. The principle of convolution
10. Heaviside’s development and general theorem on partial fractions in solving mathematical models via Laplace’s transformation
11. General compartment theory
12. The method of successive derivatives
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 the concept of a fractal
17. The application of incomplete derivatives of linear differential equations, their sum and integrals

**Training - methodical units**

1. Systems theory in dentistry
2. Identification of systems
3. Modeling of frequent responses
4. Structural model
5. System with time delay
6. Places and forms of application of systems 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**

1. Prof. Jovan Popović PhD
4. Prof. Teodor Atanacković PhD

Associate  
Assistant  
Lecturer  
Prof. of professional st.  
Assistant prof.  
Associate prof.  
Professor  
Scientist  
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<td>6.</td>
<td>Prof. Ljubiša Džambas PhD</td>
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<tr>
<td>7.</td>
<td>Asst. Saša Vukmirović</td>
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Head of the Department of Dentistry  
Prof. Dubravka Marković PhD
**41. (StIV-IZPR) MANAGEMENT IN MEDICINE AND DENTISTRY**

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<th>STUDY PROGRAMME</th>
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**Methods of teaching**
Lectures, exercises, inclusion of students in the treatment of certain topics, experimental works and other forms of engaging students in learning the subject matter.

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

**PURPOSE**
The case is so structured that students gain knowledge about the importance of management in the contemporary condition of organization. Principles, methods, models and functions of management are the knowledge that the student acquires studying this subject matter, thus enabling him to solve the system.

**Skills**
Acquired knowledge allow mastering the skills of communication in the organization, developing models of motivation, direction and guidance in different situations, guidance personnel policy, creation of teams and teamwork, conduct meetings and informing the user within the system and the environment.

**SUBJECT CONTENT**

<table>
<thead>
<tr>
<th>Theoretical teaching-methodical units</th>
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<tr>
<td>1. Defining management and health management</td>
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<tr>
<td>2. Development theory and practice of management and organization</td>
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<td>3. Entrepreneurial Management</td>
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<td>4. Structuring management functions</td>
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<td>5. Principles of Management</td>
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<td>6. Methods of management</td>
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<td>7. Management Functions</td>
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<td>8. Planning and organizing process</td>
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<td>9. Personnel management - the primary function of management</td>
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<td>10. Management - Leadership approach to achieving impact on the members of the organization</td>
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<td>11. Approaches and styles of management</td>
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<td>12. Communication and communication management</td>
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<tr>
<td>13. Motivation in management - the importance and forms of realization of the motivational impact</td>
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<tr>
<td>15. The reform of health system</td>
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<td>17. Health system reform</td>
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<th>Practical teaching-methodical units</th>
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<td>1. Modeling organizational system</td>
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<td>2. Creating plans</td>
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<tr>
<td>3. Structuring communication and communication networks in the organization</td>
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<tr>
<td>4. Create a system of motivation and stimulation of employees</td>
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<tr>
<td>5. Planning staff and their development in the organization</td>
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</table>

**RECOMMENDED LITERATURE**

|            | 2. Vukmanović Č., *Menadžment u zdravstvu*, ECPD, Savremena administracija, Beograd |

**Evaluation of students' work – No.of points per each activity**

<table>
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<tr>
<th>Pre-exam obligations</th>
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### 41. (StIV-IZPR) DENTAL CARE OF ELDERLY

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#### Methods of teaching
- Lectures and exercises

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

#### PURPOSE
**Knowledge**
- Acquisition of knowledge about all the changes that age causes. All changes that may occur in the oral cavity of elderly patients, may arise as a consequence of individual teeth and oral diseases, mucous membrane, or may be manifested as a consequence of systemic diseases, and unwanted effects of different drugs that old or sick people use.

**Skills**
- Conquering the practical knowledge of dentistry, recognition and identification of specific pathological conditions of the structures of old person. Which are systemic diseases that affect older persons. As irreversible changes that need dental prosthetic treatment. All this starting from the repair of soft and solid tissues, extraction of teeth, and to submit final prosthetic works. In each case show the full understanding, both for older people whether healthy or diseased.

#### SUBJECT CONTENT:

**Theoretical teaching-methodical units**
- 1. General anatomy, osteology of the head and neck
- 2. Physiology dental system
- 3. Masticator system
- 4. Systemic diseases that affect older persons
- 5. Aging and changes in the oral lining
- 6. Aging and Periodontal tissue changes in
- 7. Care of the elderly or ill people and specialist dental
- 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
- Amnemesis 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 immovable

**RECOMMENDED LITERATURE**


**Evaluation of students' work**

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**Списак наставника и Ассоциата**

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</table>
1. Prof. dr Ljubiša Džambas
2. Dr Aleksandra Andjelković, Associate in teaching

Chief of department

Prof. dr Dubravka Marković
42. (StV-KPRT) CLINICAL PROSTHETICS II

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Methods of conducting teaching: Theoretical and practical

**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 toothless patients.

**PURPOSE**

- **Knowledge**: Changes in morphology and physiology of the craniomandibular system, transmitting the basic parameters of the patients in the external environment, methods of making fixed prosthetic work
- **Skills**: Diagnose and plan treatment, root canal preparation, grinding of teeth, taking impressions in fixed prosthetics, cementing fixed prosthetic work

**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 review of patients with toothless jaws
- Craniomandibular joint connection - anatomical and functional specificity
- Characteristics nonphysiological occlusion
- Radiological diagnosis of the craniomandibular system
- Models for the study of techniques and procedures for their analysis
- The role of periodontal tissue in the acceptance of occlusal force and planning in fixed prosthetics
- Preprosthetics prepares mouth and teeth in fixed prosthetics
- Principles of abutment preparation
- Preparation of teeth for full cast crown
- Preparation of teeth for metal-crown
- Preparation of teeth for inleje and onleje
- Preparation of teeth for the way facets are placed
- Tooth preparation for crown bezmetalnu
- Types bezmetalnih ceramic system
- Restoration of endodontic teeth treated
- Indications for various types of factory threads
- Cast upgrade
- Bridges, the rules of planning and preparation
- Letterpress in fixed prosthetics, individual spoon
- Syringe method for otiskivanje fixed prosthetics
- Colors in fixed prosthetics
- Temporary Crown
- Cementing fiksprotetikih works
- Irreversible occlusal restoration of occlusion therapy-fixed replacement
- Occlusal therapy of patients with malocclusion

**Practical teaching – methodical units**
Occlusal trauma, functional analysis of the orofacial complex
Taking images of anatomical models for the study
Analysis model for the study
Preparation of teeth for full cast crown
Preparation of teeth for metal-crown
Preparation of teeth for Inlay
Preparation of teeth for the way facets are placed
Tooth preparation for crown bezmetalnu
Preparation and aplikovanje different types of factory threads
Making the upgrade to cast oneroot and multiroot teeth
Grinding teeth side of the bridge
Taking fingerprints
Adaptation individual spoons
Syringe method for otiskivanje fixed prosthetics
Setting colors in fixed prosthetics
Making temporary crowns
Cementing fiksnoprotetical works of Michigan splint

**RECOMMENDED READING**

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### Evaluation of students' work – No. of points per individual activity

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### List of teachers and assistents

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<th>Professor</th>
<th>PhD</th>
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<th>Scientist</th>
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Chief of department
Prof. dr Dubravka Marković, ensuring
43. (StV-PDNT)PERIODONTICS II

<table>
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<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated dentistry studies</th>
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Condition: Periodontics I, Special farmacology (for taking an exam)

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Methods of teaching: Theoretical and practical

**GOAL**

Knowledge adoption and usage of various therapeutic procedures in treating patients with periodontitis.

**PURPOSE**

Knowledge

Adopting manual skills and usage of various therapeutic procedures in work with the patients with the periodontal tissue illness.

**CONTENT OF THE SUBJECT:**

<table>
<thead>
<tr>
<th>Теоријска настава – методске јединице</th>
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<tbody>
<tr>
<td>1. Rendgenography in periodontics</td>
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<td>2. Rendgenography in periodontics</td>
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<td>3. Prognosis of the therapy of the people with periodontitis</td>
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<td>4. The plan of the therapy of the patients with periodontitis</td>
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<td>5. The plan of the therapy of the patients with periodontitis</td>
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<td>6. Preliminary therapy of the periodontitis</td>
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<td>7. Causal therapy of the periodontitis</td>
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<td>8. Medicamentous therapy in periodontics</td>
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<td>9. Selection of the method for elimination of the periodontal pockets</td>
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<tr>
<td>10. Treating of the periodontal pockets</td>
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<tr>
<td>11. Gingivectomy with gingivoplasty</td>
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<tr>
<td>12. Flap surgery</td>
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<tr>
<td>13. Flap surgery</td>
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<td>14. Regenerative methods of treating patients with periodontitis</td>
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<tr>
<td>15. Regenerative methods of treating patients with periodontitis</td>
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<td>16. Mucogingival anomalies and their therapy</td>
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<td>17. Mucogingival anomalies and their therapy</td>
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<td>18. Pre-prosthetic preparation of the periodontal tissue</td>
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<td>19. Pre-prosthetic preparation of the periodontal tissue</td>
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<td>20. Action of the forces on periodontal tissue</td>
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<tr>
<td>21. Therapy of the disturbed occlusion</td>
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<td>22. Maintenance of the therapeutic results</td>
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<tr>
<td>23. Complications of the periodontitis and their therapy</td>
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<td>24. Juvenile periodontitis</td>
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<tr>
<td>25. Prevention of the periodontitis (primary, secondary and tertiary)</td>
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<td>26. Risky patients</td>
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<td>27. Correlation of the periodontal tissue illness and general health</td>
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<tr>
<td>28. Correlation of the periodontal tissue illness and general health</td>
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<tr>
<td>29. Formation of the oral foci</td>
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<td>30. Ethiological diagnostics of the focal infection</td>
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<table>
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<tr>
<th>Практична настава – методске јединице</th>
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</table>
2. Prognosis and therapeutic plan for the periodontitis. Preliminary phase of the therapy (therapy of the acute conditions).
5. Prognosis and therapeutic plan for the periodontitis. Causal phase of the therapy.
16. Analysis of laboratory documentation. Preparation of the patients for surgical therapy of the periodontitis;
17. Selection of the method for surgical elimination of the periodontal pockets.
20. Modified Widman’s flap surgery. Resective methods in therapy of the periodontal pockets within bone tissue.
21. Regenerative operations in therapy of the periodontal pockets. Indications and contraindications.
23. Widening of the attached gingive zone. Free mucogingival autotransplants.
24. Elimination of the coronary inserted phrenulums and plica.; Free mucogingival autotransplants
25. Therapy of the isolated recession of the gingiva
26. Assessment of the success of the complex periodontitis therapy.
27. Maintenance of the periodontitis therapeutic results.
28. Consecutive diseases and so called “focal infections”.
30. Quiz Recapitulation of complete program.

RECOMMENDED READING

| Compulsory | IT | 1. CLINICAL PERIODONTICS, Dimitrijević, Dukanović, Zelić, Leković, Ursu Magdu, Janković, Čakić, Janković, Aleksić |
| Optional | IT | 1. BASICS OF CLINICAL PERIODONTICS, Zelić 2. CLINICAL PERIODONTICS AND ORAL IMPLANTOLOGY, Linde |

Student Work Assessment – number of points for individual activity

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<tr>
<th>Lectures</th>
<th>Exercises</th>
<th>Test</th>
<th>Seminar paper</th>
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Список наставника и Associate

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<tr>
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</table>

1. PhD dr Milanko Đurić
2. PhD mr Jelena Raćunica
3. Ass. trainee Ivana Gusić
4. dr Tanja Predin, teaching assistant

Head of the Chair
Prof. dr Dubravka Marković ensuring
### Study Programme

**Integrated dentistry studies**

**Department**

Chair for dentistry

**Name of Subject**

ENDODONTICS II

**Subject Status**

Bound

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

### Methods of teaching

Theoretical and practical

### Academic Year

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<th></th>
<th>Winter term (No. of the lessons per week)</th>
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### GOAL

A goal of the subject is to enable the student for independent clinical work on the therapy of the illness of the endodontic and periradicular area.

### PURPOSE

**Knowledge**

The lectures are providing to the students basic and new knowledge from endodontics, current and future development of the waist, the diagnostics of the disease, instruments and procedures used in the therapy of the periradicular area as well as postendodontic tooth care.

**Skills**

Student is in the obligation to perform, by himself, instrumentation and obturation of ten tooth root canals with the control of the working phases during clinical practice. Some aspects of the skills are integrated within subjects Illness of the teeth 1 and 2.

### Content of the Subject

**Теоријска настава – методске јединице**

- Pulpotomy and pulpectomy Endoparadontal lesions
- Therapy of the infected root canal
- Therapy of the periodontitis
- Complications during endodontic therapy
- Processes of reparation after the endodontic therapy
- Repeated endodontic therapy
- Reconstruction of the endodontic treated teeth
- Endodontic therapy of the tooth trauma
- Endodontic therapy of the patients from the risky groups
- Endodontic surgery - indications

**Практична настава – методске јединице**

- Instrumentation of the endodontic space – techniques of the performing
- Pulpotomy and pulpectomy – techniques of the performing on the vital pulp
- Treating of the infected root canal
- The therapy of the acute illnesses of the periradicular area
- The therapy of the chronic periodontitis of the apex
- Repeated endodontic therapy and desobturation
- Conservative reconstruction of the endodontically treated teeth

### Recommended Reading

**Compulsory**

1. Endodontics, V. Filipović and al, III edition, Belgrade university

**Optional**


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

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<th>Scientist</th>
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Head of the Chear
Prof. Dr Dubravka Marković, ensuring
45. (StV-MFHIR) MAKSIOFACIAL SURGERY

| STUDY PROGRAMME | Integrated dentistry studies |
| DEPARTMENT | Chair for maxillofacial surgery |
| NAME OF SUBJECT | MAXIOFACIAL SURGERY |
| SUBJECT STATUS | Bound |

Condition: Oral surgery

<table>
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Methods of teaching: Teaching and practice in block system

**GOAL**

Mastering of the knowledge and skills of the exam and diagnosing preliminary diagnose of the illness of the mouth, head and neck.

**KNOWLEDGE**

Recognition of the most frequent illnesses of the mouth, head and neck.

**SKILLS**

- Exam of the mouth organs, head and neck.
- First aid providing to the patients with trauma of the head and the neck. Methods of temporary immobilization, Haemostasis
- Postoperative treatment of the patient in ambulance conditions.

**CONTENT OF THE SUBJECT:**

- Injuries of the maxillofacial area (soft tissues, fronto-ethmoidal bone, mandible, maxilla, zygomatic bone) – diagnostics, clinical features and therapy.
- Cysts of the soft and bone tissues of the mouth, 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.
- Illnesses 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 area and of the lips, malignant tumors of maxillary sinus, metastasis in the region and staging of the malignant tumors) - diagnostics, clinical features and therapy.
- Illnesses of the salivary glands (acute and chronic inflammations, syalolithiasis, 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 (progenija, mikrogenija, laterogenija...), maxillary deformities (prognatizam, mikrognatizam), apertognatiju, other deformities) - diagnostics, clinical features and therapy.
- Preprostetic surgery
- Basics of the reconstructive, restorative and esthetic surgery.

**RECOMMENDED READING**

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Optional</th>
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</table>
| 1. Fonseca – Maxillofacial surgery
2. Word Boot – Maxillofacial surgery
3. Petersen’s Principles of Oral and Maxillofacial surgery |
<table>
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<tr>
<th>Student Work Assessment – number of points for individual activity</th>
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<td><strong>Pre-exam obligations</strong></td>
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1. PhD dr Miroslav Pr. Ilić
2. PhD dr Aleksandar Kiralj
3. Ass. mr Borislav Markov
4. Ass. trainee Bojan Pejaković

Head of the Chair

PhD dr Miroslav Pr. Ilić ensuring
46. (StV-ORVIL) ORTHODONTICS

<table>
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<tr>
<th>STUDY PROGRAM</th>
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Methods of teaching: Teaching is in the form of lectures, demonstrative and practical preclinical and clinical exercises.

GOAL

Introducing students to regular processes of growth and development, deviations from those processes and possibilities of their prevention with the aim of reducing the number of children with orthodontic abnormalities.

PURPOSE

Knowledge
- Knowledge of normal processes of jaw and teeth growth and development
- Etiologic factors in occurrence of malocclusion
- Diagnostics from the aspect of triage.
- Complete diagnostic procedure as a base for orthodontic treatment planning and implementation of interceptive measures (history, clinical examination – morphological and functional results, radiology results, dental arch prints, individual bite, gnathometric results).
- Basic principles in treatment of orthodontic abnormalities.

Skills
- Implementation of preventive and interceptive measures and interventions.
- Education of children and parents in the area of health protection and proper development of teeth.
- Giving detailed instructions on prerequisites for successful orthodontic treatment.

SUBJECT CONTENTS

- Definition of name of subject, History of orthodontic development
- Prenatal development of head, face, Prenatal development of teeth
- Postnatal development of head, face, jaws and teeth from birth to first deciduous teeth eruption
- Development of masticatory organs from first deciduous teeth eruption to completion of deciduous teeth series, during the period of deciduous and early mixed teeth series, during the period of late mixed teeth series, during the period of permanent teeth series
- 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 orthofacial system, Normal function of feeding – breast-feeding and swallowing and their effect on orthofacial region development, Function of feeding – chewing and its effect on normal development of orthofacial system
- Function of speech focusing on articulation of sounds in mouth cavity and its importance in masticatory organ development
- History (its importance in orthodontics) since birth to the moment of examination. Family history
- Status presents general. Height, weight, skeletal deformities, etc. Status localis- extraoral, morphological analysis of the face at rest and occlusion. Functional examination.
- Status presents local – intraoral. General characteristics of deciduous and permanent teeth and tooth series. Shape, position, size of tongue out of function. Position of incisors sagittal and vertical, middle of tooth series. Initiation of other examinations.
- Characteristics and importance of print in orthodontics
- Importance and mode of making study models
- Instruments for study model analysis
- Schwartz’s analysis of study models, points of measurement of width and height of dental arches, mean value

- Active removable braces – basic parts and the role of labial arch
- Flexible string parts – spring, screw, ridge
- Basic elements of functional apparatuses – monobloc. Reduced activator, vestibular surface, bionator according to Balters, function regulator according to Frankel, propulsor
- Fixed braces – combination of movable and fixed therapy.
- Therapy of abnormalities during the period of mixed and permanent dentition in transversal direction, teeth and jaws in sagittal direction, teeth and jaws in vertical direction
- Retention of achieved treatment results, hygiene of mouth cavity and braces during therapy
- Interdisciplinary cooperation - therapy

Practical classes – methodical units
• Eugnathic jaw (deciduous, permanent) with all its characteristic. Deviation from proper occlusion in all three directions
• History, results
• Choosing and preparing spoons for print taking. Prints, stand making
• Analysis of study models, Schwarz’s analysis
• Determination of the middle of upper jaw, transferring to lower jaw, X-ray of spine mentalis
• Comparing tooth series in sagittal and transversal direction
• Vertical abnormalities, reconstruction
• Bite determination. Classes according to Angle
• Analysis of space available in tooth series
• Diagnostics of occlusal finding (terminology), therapy plan, description
• Analysis of study model of another case
• Vertical abnormalities, analysis of available space, classes
• Diagnosis and therapy plan
• Prints for study models, model casting, X-ray (opt, tele X-ray head profile, hand X-ray)
• Analysis of study models, analysis of x-rays
• Analysis of face, biogenetic diagnostics, therapy plan, print for work
• Submission of active flexible braces, processing the next patient
• First patient control, prints for study models of another patient and X-ray
• Analysis of the study model and X-ray
• Therapy plan and print for the next patient
• Introduction to characteristics of orthodontic wire, bending various wire parts
• Submission of active flexible braces to the second patient and first patient control
• Admission and processing new patient, history, clinical results
• Prints, X-ray, control of patient who are in therapy.
• Analysis of study models and X-ray of new patients for functional therapy and establishing diagnosis
• Therapy plan and construction bite for newly processed patients
• Submission of functional braces (monobloc) to new patients and control of previous patients
• Control examination of patients, consultations regarding processed programme
• Clinical processing of new patient for functional therapy (monobloc - activator)
• Clinical processing and control of the patient
• Submission of functional braces - monobloc
• Processing the patient for functional therapy
• Control of patients with functional braces
• Construction bite
• Control of patients processed during this and previous term

RECOMMENDED READING

Mandatory
1. Markovic, M. “Orthodontics” Orthodontal Section of Serbia, Belgrade, 1982
2. Maric, D., Vukic-Culafic, B., “Practicum in orthodontics” Medical Faculty of Novi Sad, Novi Sad, 1998

Further

Student Work Assessment – number of points for individual activity

<table>
<thead>
<tr>
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<th>Final Exam</th>
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List of Teachers and Associates

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<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Prof. of studies</th>
<th>Assistant Prof.</th>
<th>Associate Prof.</th>
<th>Professor</th>
<th>Scientist</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Branka Vukic – Culafic, M.D.</td>
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<tr>
<td>2.</td>
<td>Asst. Prof. Predrag Vucinic, M.D.</td>
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<td>3.</td>
<td>Asst. Prof. Djordje Petrovic, M.D.</td>
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<td>4.</td>
<td>Stojan Ivic, MD, Associate</td>
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Head of Department
Prof. Dubravka Markovic, M.D.
47. (StV-SZOPP) – DENTAL PROTECTION OF PEOPLE WITH SPECIAL NEEDS

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Stomatology</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of Stomatology</td>
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<tr>
<td>SUBJECT</td>
<td>DENTAL PROTECTION OF PEOPLE WITH SPECIAL NEEDS</td>
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<tr>
<td>SUBJECT STATUS</td>
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<td>Condition</td>
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Methods of teaching: Lectures, clinical practice at the faculty and outpatient 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**

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 outpatient 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.

**LECTURES – methodical units**

- Goal and importance of subject, characteristics of oral pathology in people with special needs.
- Prevention from oral diseases of people with special needs.
- Individual programme for oral disease prevention.
- People with high medical risks in dental office. Socio-medical importance.
- Orthodontic treatment of persons with jaw and palate split.
- Orthodontic treatment of persons with serious 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 devices.
- Rehabilitation of patients with special needs with fixed devices

**PRACTICAL TEACHING – methodical units**

- Introducing to characteristics of dental management of patients with special needs, kinds of disability, communication capability, dental work in outpatient treatment setting.
- Admission and examination of people with special needs, management planning, practical performance (outdoor work).
- Oral hygiene – choice of medical devices and techniques for maintaining oral hygiene in patients with special needs. Patient and parent training in proper oral hygiene maintenance.
- Out-door treatment of patients with high medical risks.
- Dental management of patients in total anesthesia.
- Mobile orthodontic appliances in patients with jaw and palate split.
- Fixed orthodontic appliances in patients with serious abnormalities.
- Out-door 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
### Student Work Assessment

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1. Asst. Prof. Predrag Vucinic, M.D.
2. Asst. Prof. Duska Blagojevic, M.D. (in elections)
3. Asst. Ivan Tusek, MSc

List of Teachers and Associates

Head of Department
Prof. Dubravka Markovic, M.D.
48. (StV-URG) – EMERGENCY MEDICINE

<table>
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<th>STUDY PROGRAM</th>
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Methods of teaching: Lectures, Practice

**Goal**

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

**Knowledge**

Introducing students to prehospital and initial hospital organisation 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.

**Lectures** –
2. Assessing, maintaining and providing airway. Artificial respiration.
3. Acute chest pain (evaluation and management)
4. Acute coronary syndromes
6. Dissection of aorta. Rupture of aneurysm of abdominal aorta
7. Peri-arrest arrhythmia (tachycardia, bradycardia)
8. Hypertensive emergency cases
10. Death – phases of sudden death determination, communication with the family. Madikolegal aspects of emergency medicine.
11. Acute peripheral arterial ischaemia
13. Anaphylactic shock
14. Acute asphyxia (signs of recognition, 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. Ischaemic stroke. Transitory ischemic attack (TIA)
20. Subarachnoid haemorrhage (SAH)
22. Trauma – serious isolated and serious multiple. Prehospital primary examination (ABCDE principle) and stabilisation on the site. Prehospital management during transportation. Initial hospital management.
23. Acute poisoning

**Practical teaching – methodical units**

2. Mechanical devices for providing airway. Bolus obstruction in adults and children (Mechanička sredstva za obezbedjivanje vazdušnog puta. Bolus opstrukcija kod odraslih i dece (algorithm to procedures) – practice on dummy
3. Serious Airways (algorithm to procedures)
4. Methods of artificial respiration – practice on dummy
5. Intravascular access (peripheral venous, central venous, intraoseal) – practice on dummy
6. Infusion solutions for volume compensation
7. Vasoactive, inotropic and anti-arythmic medicines as initial pharmacotherapy of emergency states (ways of administration, preparation, dosage, indications)
8. Basic measures of CPR in adults and children (algorithm to procedures) – practice on dummy
9. ECG forms of cardiac arrest and ECG recognition of periarrest arrhythmia
10. Early defibrillation (types of defibrillators, indication). Cardioversion. Trans acute cardiac pacing-practice on dummy
11. Extended CPR measures in children and adults (algorithm to procedures) – practice on dummy
12. Pharmacotherapy of cardiac arrest (types of medicaments, ways of administration)
13. Therapeutic algorithm of asystoly – practice on dummy
14. Therapeutic algorithm of pulsless electrical activity – practice on dummy
15. Therapeutic algorithm of ventricular fibrillation and ventricular pulsless tachycardia – practice on dummy
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 trauma – score system in diagnostics and assessment of the outcome of the traumatised.
21. Sedation and analgesia (indications, types of medicaments and ways of administration)
22. Introducing to contents of prehospital management of the Institute for emergency medicine
23. Introducing to contents of initial hospital management in Emergency Centre
### RECOMMENDED READING

<table>
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### Student Work Assessment – number of points for individual activity

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### List of Teachers and Associates

<table>
<thead>
<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Prof. of studies</th>
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1. Prof. Miroslava Pjević, M.D.
2. Prof. Gordana Panic, M.D.
3. Prof. Svetolik Avramov, M.D.
4. Prof. Petar Slankamenac, M.D.
5. Prof. Lilijana Gvozdenovic, M.D.
6. Prof. Vesna Perkovic-Zrnic, M.D.
7. Prof. Radenko Vukovic, M.D.
8. Asst. Prof. Velibor Vasovic, M.D.
9. Asst. Prof. Doc. dr Dejan Ivanov
10. Asst. Prof. Zeljko Kojadinovic, M.D.
11. Asst. Janko Pasternak, MMed
12. Asst. Vladan Popovic, M.D.
13. Asst. Milanka Tatic, MMed
15. Ilija Srdanovic, M.D., Associate in Teaching
16. Snezana Stanisavljevic, M.D. Associate in Teaching
17. Vladimir Manojlovic, M.D. Associate in Teaching
18. Arsen Uvelin, M.D., Associate in Teaching
19. Ana Uram-Benka, M.D., Associate in Teaching

Șef Katedre
Prof. dr Miroslava Pjević ensuring

123
49. (StV-SED) FORENSIC MEDICINE

STUDY PROGRAM  Integrated Studies of Dentistry
DEPARTMENT  Department of Forensic medicine
SUBJECT  FORENSIC MEDICINE
STATUS OF THE SUBJECT  Compulsory
Condition  Surgery

<table>
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<tr>
<th>The year of studies</th>
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Methodology

AIM
The main aim of the education of the Forensic Medicine is getting students familiar with the elements of protection of physical and psychical integrity of each person, in which medicine and law are overlapping. It is necessary to get the student familiar with legal position of dentistry practice, as well as the ethic and legal responsibility of medical workers. Gaining skills which will be used in practice. Development of critical thinking and abilities for the research work.

PURPOSE
knowledge
Introducing to students the ways of natural and violent health damage, laws considering that field and the ways of solving possible problems. Obligations and rights in case of death of patients. Laws on professional responsibility. The use of sophisticated technology in forensics 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:

Lectures – methodical units

1. The short history overview of forensic science. The term of the forensics and its objectives. The relation with other medical disciplines and the close scientific disciplines- the relation between medicine and law.
2. The term 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 decease.
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 organism to the injury. The vital, agonal and posthumous injuries. Embolism. Shock.
10. Drug addiction- opiates psycho stimulus, hallucinogens.
11. Ethyl alcohol as the forensics problem.
13. Nutritive, biological injuries and psychic injuries.
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. Law aspects of medicine. Law and medical aspects during the medical intervention.

Practice- 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. v. 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.

<table>
<thead>
<tr>
<th>RECOMMENDED READING</th>
<th>Compulsory</th>
<th>Additional</th>
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<tbody>
<tr>
<td>1. Popović D. Šolvjanski M. i Tasić M: &quot;Sudska medicina&quot;. Medicinski fakultet Novi Sad</td>
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<tr>
<td>M. Milovanović: &quot;Sudska medicina&quot; (any edition).</td>
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<td>Simić M: &quot;Test pitanja iz Sudske medicine&quot;. Medicinski fakultet Novi Sad</td>
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### Student evaluation – no. of points for each activity

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### List of professors and assistants

1. Prof. Dr Milan Simić
2. Prof. Dr Branislav Budakov
3. Prof. Dr Radenko Vuković
4. Prof. Dr Goran Stojiljković
5. Prof. Dr Dragana Drašković
6. Assistant Prof. Dr Stojan Petković
7. Assistant Prof. Dr Igor Veselinović
8. Assistant MA Šandor Takač
9. Associate Vladimir Pilija

¹Seminar paper is not obligatory (according to the student’s wish).
²If the student did not do seminar paper.

The Head of The Department
Prof. Dr Milan Simić ensuring
50. (StV-IZPR) IMPLANTOLOGY

**STUDY PROGRAM**
Integrated Studies of Dentistry

**DEPARTMENT**
Department of dentistry

**SUBJECT**
Implantology

**STATUS OF THE SUBJECT**
elective course

**Condition**
None

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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 which are used in dentistry.

**PURPOSE**
Implantology is the multidisciplinary dentistry branch which should be familiar to the students because the implantology and all the dentistry branches in correlation with it make it the most contemporary trend in present day dentistry.

**SKILLS**
Through the practice on phantom students gain basic knowledge of the importance and ways of putting in implants, and through prosthetic work they gain knowledge of prosthetic rehabilitation of patients with implants.

**Lectures – methodical units**
1. Introduction into the subject
2. Materials used in implantology
3. Selection of patients and pre-implanting preparation
4. Indication and contraindications of implantations
5. Bone structure and the division of implants
6. Putting in implants according to their features
7. Special surgery (pre-implanting preparation)
8. Complications (during and post surgery)
9. Planning of medication in the combination with implantory prosthetic procedures
10. Types of suprastructure
11. Taking teeth print for suprastruktur
12. Importance of work with the articulator
13. Fixing of implants
14. Occlusal balance
15. The importance of check-up examination in implantology

**Practice- methodical units**
1. Anamnesis of clinical examination and the x-rays
2. Pre-implanting preparation
3. Implantation on phantom (factory models)
4. Taking teeth prints
5. Establishing sizes
6. Cantering of implants
7. Fixing of implants for screwing

**RECOMMENDED READING**
1. Osnovi oralne implatologije (Dr Jovan Perović)
2. Atlas oralne implatologije (Dr Zoran Stajić)
3. Transdentalni titan implantata (Jovan Perović, Milan Jurišić, Aleksa Marković)

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

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1. Prof. Dr Dubravka Marković
2. Assistant Prof. Dr Siniša Mirković
3. Assistant Prof. Dr Milanko Durčić
4. Assistant MA Ivan Šarčev

The Head of The Department
Prof. Dr Dubravka Marković, ensuring
**EPIDEMIOLOGY OF ORAL DESEASE (MIV-EPID)**

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| Teaching methods | Theoretical and practical classes with active participation of students, previously prepared |

**AIM**

The aim of education is to make students capable to estimate health status of population and to recognize and implement measures of prevention and control of communicable and non-communicable diseases.

**GOAL**

**Knowledge**

Student needs to know epidemiology methods and to implement them in routine work with patients, to become familiar with epidemiology of communicable and non-communicable diseases in herd and population to be able to recognize them and to take measure of prevention and control. The student needs to become familiar with law obligations in the context of surveillance.

**Skills**

Student needs to be able to conduct surveillance of communicable and non-communicable diseases, including reporting, to be able to apply immunization and chemoprophylaxis, and to recognize outbreaks and to conduct investigation of outbreaks.

**COURSE DESCRIPTION**

**Theoretical classes**

Definition, aim and objectives of epidemiology (historical development of epidemiology, differences between clinical medicine and epidemiology, epidemiological definitions)

Epidemiological methods - descriptive (demographic, chronologic and topographic characteristics of important health events)

Analytical method (case-control studies, cohorts, cross-section studies, estimation of risks for occurrence of disease, bias in analytical studies)

Experimental method (design of experimental studies, clinical trial, field experiment, experiment in community)

Causality in epidemiology (types of interrelations and causality)

Epidemiological models (ecological trias, wheel model, network of causality)

Characteristics of agents (definition, types, characteristics depending of host)

Characteristics of host and environment

Chain of infection (reservoir and source of infection, place of entry, routes of transmission, dose and virulence of agents, disposition)

Epidemiology of non-communicable diseases (epidemiological measures of significance, risk factors, levels of prevention, epidemiology of cardiovascular diseases)

Surveillance (definition, purpose, aims, types, components, questionnaires)

Outbreak investigation (10 steps according to Gordis)

Epidemiological process (natural history of disease, gradient of infection, iceberg phenomenon, characteristics according place and time)

Routes of transmission – detail characteristics of direct and indirect transmission

Natural environments of diseases (circulation of agents in natural environments, vectors, vector-borne outbreaks)

Characteristics of infectious disease outbreaks (air-borne, water-borne, food-borne, person-to-person)

Infectious diseases prevention and control measures (definitions, measures linked to reservoir, agent, rout of transmission, host)

Specific measures. Passive immunization and chemoprophylaxis

Systematic immunization

Special epidemiology – epidemiology of vaccine preventable diseases

Special epidemiology – epidemiology of air-borne diseases

Special epidemiology – epidemiology of specific air-borne diseases

Special epidemiology – epidemiology of blood-borne infections

Special epidemiology – epidemiology of specific blood-borne infections

Special epidemiology – epidemiology of intestinal infectious diseases

Special epidemiology – epidemiology of specific intestinal infectious diseases

Special epidemiology – epidemiology of vector-borne diseases

Special epidemiology – epidemiology of hemorrhagic fevers
Practical classes

Sources of data about population, morbidity and mortality – census, records of newborns and deceased, ambulatory and hospital records, disease reports, registries

Basic measures of importance of epidemiological problem – measures of morbidity, mortality, general and specific measures, standardized measures

Epidemiology of infectious diseases in AP Vojvodina – incidence, mortality, specific measures

Epidemiology of malignant disease in AP Vojvodina – incidence, mortality, specific measures

Questionnaire in epidemiology – characteristics of questionnaires for communicable and non-communicable diseases

Outbreak investigation – examples

Epidemiological methods – types, descriptive method

Epidemiological methods – analytical, experiment

Water-borne outbreaks – characteristics, disease transmissible by water

Water-borne outbreaks – examples, investigation of outbreaks

Food-borne outbreaks – characteristics, disease transmissible by food

Food-borne outbreaks – examples, investigation of outbreaks

Contact outbreaks – characteristics, disease transmissible by contact

Contact outbreaks – examples, investigation of outbreaks

Air-borne outbreaks – characteristics, disease transmissible by air

Air-borne outbreaks – examples, investigation of outbreaks

Immunization – types of vaccines and their use, contraindications

Immunization – organization of vaccination, documentation, reporting of unwanted reactions

Immunization – vaccine schedule, systematic immunization, vaccination for epidemiological and clinical reasons, vaccination for travelers

Immunization – vaccine schedule

VCT – principles, purpose and implementation

VCT – practical work, work with especially vulnerable population

Nosocomial infections – definitions, criteria, imprtance

Nosocomial infections – types of surveillance

Nosocomial infections – prevention and measures of prevention

Nosocomial infections – protocols of aseptic procedures – practical work

Quarantine diseases – epidemiology of small pox

Quarantine diseases – epidemiology of cholera

Epidemiology of newly emerging diseases – SARS

30. Epidemiology of newly emerging diseases – avian flu

Recommended Literature


Optional


Student activity assessment (points)

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<tr>
<th>Lectures</th>
<th>Practices</th>
<th>Colloquium</th>
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Teaching staff

3. Zorica Šeguljev, professor
4. Msrica Miladinov, professor
5. Slavica Stefanović, associate professor
6. Gorana Cosić, teaching assistant
7. Vladimir Petrović, teaching assistant
8. Predrag Đurić, teaching assistant
9. Tihomir Dugandžija, teaching demonstrator

Head of the Department
Prof. dr Slavica Stefanović s.r.
### 50. (StV-IZPR) RISK DECEASES IN DENTISTRY

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Dentistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of Dentistry</td>
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<tr>
<td>SUBJECT</td>
<td>RISK DECEASES IN DENTISTRY</td>
</tr>
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**The year of studies**

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<th>Summer term (No. of the lessons per week)</th>
<th>Number of pre-exam tests</th>
<th>Number of seminar papers</th>
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**AIM**

Gaining knowledge of risk deceases and states in the field of dentistry pathology.

**PURPOSE**

Team care of dentistry pathology in cooperation of dentists and the other medical specialists. Establishing of protocol procedure and team care which holds the least risk for the patient.

**SKILLS**

**CONTENTS OF SUBJECT:**

1. **Introduction.** The term of risk patient in dentistry. Law and medical aspects of work with risk patients in for dentistry.
2. **Infectious deceases and dentistry.** Hepatitis, HIV....Production of medical workers, putting away of the used instruments and the sterilisation. Medical waste disposal. Means of protection. Post exposal prophylaxis.
4. **Patients allergic to some medications.** Diagnosis of allergy. Allergy to local anaesthetics, preservative, acrylic and other material used in dentistry. The protocol of work with patients allergic to local anaesthetics.
5. **Allergy and immunology deceases placed in the mouth.**
6. **Premalignant lesions maxillofacial region.** Clinical features, diagnosis, early discovering, treatment and the course of the deceases.
7. **Tumours of maxillofacial region.** Special course of post-surgery rehabilitation, as well as the treatment of teeth deceases. Specificity of patients under cytostatic therapy and after radiation treatment of maxillofacial region.
8. **Patients with cardio vascular deceases.** Protocol of work, ways and means of team care of such patients.
10. **Liver deceases.** Patients on dialysis. .
11. **Special needs patients.** Special treatment in local anesthetics and special dentistry treatment.
12. **Patients with endocrinological disorders.** Thyroid disorders, insulin dependant diabetes.
13. **Patients with diabetes.** Special preparation and conduction the oral surgery with the most complicated cases.
14. **Psychical disorders, addictions and the dentistry.**
15. **Risk pregnancy and the dentistry.**

**Practice- methodical units**

The overview of patients with the risk deceases.

**RECOMMENDED READING**

- Compulsory: Prepare the textbook until February 2009. (up to 10 pages following the topics above stated)
- Additional: 1. Prepare the textbook until February 2009. (up to 10 pages following the topics above stated)

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

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<tr>
<th>Pre-exam activities</th>
<th>Final exam</th>
<th>Total</th>
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**List of professors and assistants**

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<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>prof. of professional studies</th>
<th>Assistant prof.</th>
<th>Associate prof.</th>
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<td>1. Prof. Dr Srečko Selaković</td>
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<td>11. Prof. Dr Miroslava Pjević</td>
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<td>12. Prof. Dr Tijana Momčilov Popin</td>
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The Head of the Department
Prof. Dr Dubravka Marković

ensuring
### STUDY PROGRAM
Integrated Studies of Dentistry

### DEPARTMENT

### SUBJECT
FINAL (DEGREE) PAPER

### STATUS OF THE SUBJECT
Compulsory

### Condition
Passed all exams

<table>
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### AIM
The aim of composing the final paper is that the future dentist:
- Uses the methodology of research work on specific problem.
- Show that he is capable to use statistics analysis of data and preset them also by graphs and tables
- To show the ability to find the necessary data by using the search engines designed for international and domestic biomedical database.
- The ability to present results of research work in written and oral form.

### PURPOSE
Once the dentist has defended his final degree paper he is qualified for further research work, to publish it in science magazines and to present his scientific observations and achievements. Mastering this segment of his own education becomes competent as the educator of medical staff in their continual education

### SKILLS

### CONTENTS OF SUBJECT:

**Lectures – 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.

**Practice- methodical units**

### RECOMMENDED READING

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

<table>
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The board of teachers evaluate final degree paper giving it marks from 5 to 10, and gained positive mark (6-10) is a part of the overall average mark of the student. Undefended final degree papers are give mark 5.

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Mentor – professor

The Chief of The Department