UNIVERSITY OF MEDICINE AND PHARMACY

"IULIU HAŢIEGANU" Cluj - Napoca



Faculty of Dental Medicine

ENGLISH STUDY PROGRAM ECTS GUIDE

ACADEMIC YEAR 2021-2022

Authors Dean

Assoc. Prof. Dr. Cristian Mihail Dinu

Vice-Deans

Prof. Dr. Ondine Lucaciu Prof. Dr. Aranka Ilea Assoc. Prof. Dr. Marius Manole

Editorial Board

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Secretary

Nicoleta Stănculesc – chief secretary of faculty

Alexandra Siladi – secretary

Delia Moiș – secretary

Raluca David – secretary

 $Silvana\ Rusan-secretary$

Oana Ghineț – secretary

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FACULTY OF DENTAL MEDICINE

ENGLISH STUDY PROGRAM ECTS GUIDE

Academic Year 2021-2022

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1. DEAN'S MESSAGE

The medical profession has always been an important choice for the most valuable young people due to its primordial nobility and solid social recognition. Dentistry, probably the most liberal of all the medical specialties, offers the specific responsibility of the medical profession, but also gives a high degree of independence, offering to the one who practices it, the chance to be a dental practitioner and an entrepreneur at the same time.

In 2021, dental medicine is in full technological advance, the digital age being a certainty; the mobility of the labor force existing in the European and extra-European space, represents a good opportunity for the young graduates. In this context, the Faculty of Dental Medicine of the University of Medicine and Pharmacy "Iuliu Haţieganu" Cluj-Napoca offers the possibility to obtain one of the most appreciated medical degrees in the world; doctor of dental medicine.

Established in 1919, by Professor Gheorghe Bilaşcu, at the initiative of Professor Iuliu Haţieganu, the medical education in dentistry at the university was the first compulsory dental education in Romania. The Faculty of Dental Medicine of the University of Medicine and Pharmacy "Iuliu Haţieganu" in Cluj-Napoca, more than one hundred years after its establishment, is in the leading position in the national landscape of the faculties of profile and is a landmark in the European space through the tradition of training foreign students as professionals with recognized value in their countries of origin.

The human resource, represented by the teaching staff, is the main factor that ensures the accomplishment of the mission of the Faculty and which, along with tradition, constitutes its most important values. The outstanding quality of the academic staff, associated with a generous infrastructure and a modern material base, creates the premises for optimal training for over 1200 students for the specialty of dental medicine with a duration of six years and for the specialization of dental technician with a duration of three years.

The academic formation in dental medicine benefits of three lines of study in Romanian, French and English languages. Also, within the Faculty one can access postgraduate studies of masters, PhD and specialization.

Cluj-Napoca, the capital and heart of Transylvania, is a city with an ancient history, certified since the Roman Empire, a cradle of culture and civilization throughout time. Nowadays, Cluj-Napoca is a modern and dynamic city from an economical point of view, a European city with six universities, a cosmopolitan, multicultural city that offers its students an intense and stimulating social and cultural experience.

Young people who want to study in a recognized and appreciated academic environment, to live and to study in an eminent university city, with a rich social and cultural life, will find the dream place in the medical university of Cluj-Napoca. The Faculty of Dental Medicine is waiting for you to come, to join the dental community of Cluj-Napoca and together, to increase the value and prestige of the Cluj-Napoca School of Dentistry!

Vivat Academia!

Dean, Assoc. Prof. Dr. Cristian Mihail Dinu

2. BRIEF HISTORY OF THE FACULTY OF DENTAL MEDICINE FROM CLUJ

The medical teaching program in Cluj started in 1581, being organized and having, like all around the world, a religious feature.

Cluj School of Medicine and Surgery was created in 1775, as a college where teaching was performed also in Romanian language.

In 1897, the University called "Franz Josef" was created in Cluj and it also included the Faculty of Medicine in which Dentistry was amongst the subject being taught.

In 1919, the Faculty of Medicine from Cluj is founded as a part of "Dacia Superioară" University, having Romanian as the teaching language.

The Dental School exists, at the beginning, as a part of this Faculty of Medicine, starting then to evolve and develop as a distinct faculty.

The founder and organizer of Cluj Dental School was Prof. Dr. Gheorghe Bilaşcu, leader of Dentistry teaching between 1919-1926. The dental medicine knowledge became compulsory all over Romania, as part of the basic curricula of the medical students. This Department of Stomatology was the first one created as part of medical teaching in Romania.

A new step of the Dental School occurred in 1932, when Assoc. Prof. Dr. Ion Aleman (1891-1948) – an alumni of Prof. Dr. Gheorghe Bilaşcu, was appointed as chief of the Dentistry Department of the Faculty of Medicine. Prof. Dr. Ion Aleman developed the dental teaching and published a book for students training.

Undergraduate formation in dentistry was organized as a separate faculty only in 1949, having Prof. Dr. Vasile Vasilescu as the first dean (1949-1950) of the Faculty of Dentistry. At the beginning, there were only three departments: Orthopedic Dentistry, Dental Therapy and Maxillofacial Surgery. Afterwards, between 1961-1963, Orthopedic Dentistry was divided into Pediatric Dentistry (Pedodontics-Orthodontics) and Dental Propaedeutics.

In 1972, the Dental Radiology Department was created, led by Prof. Dr. Hugo Ratiu (1927-2004) and the divisions of: Microbiology, Biochemistry, Anatomy, Pharmacology, Histology, Physiology, Physiopathology, General Surgery, Obstetrics – gynecology (1977-1978) General Hygiene and Social Medicine were included.

Throughout its history, Cluj Medical School formed and consolidated its prestige due to worldwide recognized academics. Among the most important professors recorded in the history of the Dental Faculty were: Prof. Dr. Vasile Vasilescu (1899-1992) in Orthopedic Dentistry, Assoc. Prof. Dr. Maurițiu Schapira (1907-1990) Pediatric Dentistry, Prof. Dr. Iosif Baba (1909-1991) at Oro-dental Therapy, Prof. Dr. Cornel Oprișiu (1908) at Maxillofacial Surgery. The academic staff of our university and faculty have created the unmistakable pattern of Cluj medical school, which focuses on the medical staff professionalism accompanied by the care and respect due to a suffering human being.

In 1990 the name became the University of Medicine and Pharmacy, which included the following faculties: Medicine, Stomatology and Pharmacy, whereas in 1993, the university is called University of Medicine and Pharmacy "Iuliu

Haţieganu", receiving the name of the first Romanian professor in Medical Clinics, who was also the first Dean of the Faculty of Medicine.

Since the university year 1997-1998, the credits system ECTS was established and our faculty rallied to it. In 2008, following Romania joining the European Union, the official title of Stomatology became Dental Medicine. The old name followed the tradition of Greek and Latin origin titles, but it did not match the EU requirements.

The Faculty offer grew into a more diverse one, besides the Romanian section, the French section (since 2001) and the English section (since 2007) were created.

Nowadays, the Faculty of Dental Medicine, having European accreditation, prepares, based on an European curricula, experts able to provide specialized medical care. Through the research activity, our experts contribute to the development of theoretical and practical knowledge in dentistry.

3. ACADEMIC MANAGEMENT

3.1. Academic management of the University

3.1.1. The Senate

The Senate is the superior management forum of the entire academic community in all fields of activity. The Senate consists of teaching staff and students. All members of the Senate are chosen according to the election regulations drafted and approved by the Senate. All chosen members of the Senate (teaching staff and students) share equal rights and obligations.

The Senate, Senate Bureau and the Rector take decisions concerning the main issues of the educational process, based on the university's autonomy, respecting the academic freedom and the regulations of the Ministry of Education and Research. The Senate consists of academic staff and of students (25%). The University Senate includes four academic staff of the Faculty of Dental Medicine.

3.1.2. The Board of the University of Medicine and Pharmacy "Iuliu Hațieganu"

Prof. Dr. Anca Dana Buzoianu
Prof. Dr. Valentin Muntean
Assoc. Prof. Dr. George Călin Dindelegan
Prof. Dr. Carmen Mihaela Mihu
Prof. Dr. Daniel Mureșan
Prof. Dr. Mihaela Felicia Băciuț

Vice-Rector for Quality Management and International Relations Doctoral Studies Responsible

Prof. Dr. Radu Nicolae Oprean

Prof. Dr. Dana Pop

3.2. Academic Management of the Faculty of Dental Medicine

3.2.1. The Council of the Faculty of Dental Medicine

The Council is the highest governing body of the Faculty of Dental Medicine. It draws the development strategy, approves the teaching planning, it drafts the number of students for each specialization and each teaching program, it approves the subjects for the graduate, master and PhD exams, it validates the departments chiefs, it decides the amount of scholarships within the available funding. It consists of 15 academic members and 5 students, chosen based on the Electoral Regulations. The representatives of international students, the head of faculty administration, teaching staff and resident physicians can be occasionally or permanently invited to participate in the Board meetings, if they are involved in the daily agenda. The Dean of the Faculty chairs the Council.

Dean	Assoc. Prof. Dr. Cristian Mihail Dinu
Vice-Dean	Prof. Dr.Aranka Ilea
Vice-Dean	Assoc. Prof. Dr.Marius Manole
Vice-Dean	Prof. Dr. Ondine Lucaciu (member)
Member	Prof. Dr. Diana Dudea
Member	Prof. Dr. Alexandra Roman
Member	Prof. Dr. Mîndra Badea
Member	Prof. Dr. Mihaela Băciuț
Member	Prof. Dr. Simion Bran
Member	Assoc. Prof. Dr. Dana Feștilă
Member	Assoc. Prof. Dr.Ada Delean
Member	Prof. Dr. Mihaela Hedeşiu
Member	Assoc. Prof. Dr.Horațiu Rotar
Member	Assoc. Prof. Dr.Smaranda Buduru
ļ	

Member	Lecturer Dr. Sanda Cîmpean
	Lecturer Dr. Laurențiu Pascu
	Lecturer Dr. Cristian Olteanu
Member	Asist. Prof. Dr. Marius Bud

3.2.2. The Council Board

The Faculty Board is in charge for the implementation of Council's decisions. As a rule, the Council meetings are held weekly. The Faculty Board consists of Dean, Vice-Deans, Head of Faculty Administration and dental students representatives. The Dean is responsible for the entire activity in the Faculty, and represents the Faculty at University level and outside it; he coordinates its activity and supervises the implementation of the Faculty Council's decisions.

The activity of the academic management team of the Faculty is supported by an administrative team of technicians chaired by the Faculty Head Secretary.

The academic management of the University of Medicine and Pharmacy "Iuliu Haţieganu" and of the Faculty of Dental Medicine was elected in February 2020 for a four years mandate and it consists of the following members:

Dean	Assoc. Prof. Dr. Cristian Mihail Dinu
Vice-Dean for Scientific Affairs	Prof. Dr. Aranka Ilea
Vice-Dean for Educational	Prof. Dr. Ondine Lucaciu
Problems	
Vice-Dean for Management and	Assoc. Prof. Dr. Marius Manole
Academic Development	

Address

Faculty of Dental Medicine, Dean's Office University of Medicine and Pharmacy "Iuliu Haţieganu" 4 Louis Pasteur Street, Second Floor Cluj-Napoca, 400349, Romania

Phone: +40 264406844; Fax: +40 264597257

3.3. Educational Offer

A. Undergraduate Degree Programs

Currently, the educational offer of our faculty consists in:

• Romanian Section, French Section, English Section – dental medicine study program

Study domain: HEALTHCARE

- Study program DENTAL MEDICINE (360 ECTS)
 Graduate diploma in dental medicine, university studies for 6 years
- Study program DENTAL TECHNOLOGY (180 ECTS)
 Graduate diploma in dental technology, university studies for 3 years

B. Postgraduate Programs

• Master Degree

The Master program is postgraduate education that provides studies among the undergraduate subjects or a closely related field, aiming to develop scientific research abilities and building-up a base for a PhD study program.

Master Program: "Judicial Dental Medicine" (2 years, 120 ETCS)

PhD Degree

University studies for PhD are a program offered to graduates that aim to obtain extended skills in scientific research or to pursue a teaching career.

C. Postgraduate residency programs in Dental Field -3 to 5 years of residency training

- Dento-Alveolar Surgery, Stomatological and Maxillo-Facial Surgery;
- Orthodontics and Dentofacial Orthopedics, Pedodontics;
- Endodontics, Prosthodontics, Periodontology, General Dentistry.

D. Postgraduate Continuous Medical Education

• A large amount of postgraduate training courses are available, which include all dental medicine specialties.

3.4. Departments of the Faculty of Dental Medicine

Department I – Maxillo-Facial Surgery and Radiology

- Head of Department Prof. Dr. Mihaela Hedeşiu
 - 1. Oral and Cranio-Maxillofacial Surgery
 - 2. Facial and Neck Surgery and Oto-Rhino-Laryngology
 - 3. Maxillo-Facial Surgery and Implantology
 - 4. Dental Radiology

Department II - Conservative Dentistry

• Head of Department - Assoc. Prof. Dr. Ada Delean

- 1. Pedodontics
- 2. Orthodontics
- 3. Odontology, Endodontics, Cariology, Oral Pathology

Department III – Oral Rehabilitation

• Head of Department - Prof. Dr. Alexandra Roman

- 1. Periodontology
- 2. Prevention in Dental Medicine
- 3. Oral Rehabilitation
- 4. Oral Health

Department IV - Prosthetic Dentistry and Dental Materials

- Head of Department Prof. Dr. Diana Dudea
 - 1. Prosthetic Dentistry
 - 2. Dental Materials
 - 3. Dental Propaedeutics and Esthetics

3.5. Divisions of the Faculty of Dental Medicine

- 1. Oral and Cranio-Maxillo-Facial Surgery
- 2. Maxillo-Facial Surgery and Implantology
- 3. Facial and Neck Surgery and Oto-Rhino-Laryngology
- 4. Dental Materials, Ergonomics
- 5. Odontology, Endodontics, Cariology, Oral Pathology
- 6. Orthodontics
- 7. Periodontology
- 8. Prevention in Dental Medicine
- 9. Pedodontics
- 10. Dental Propaedeutics and Esthetics
- 11. Prosthetic Dentistry
- 12. Dental Radiology
- 13. Oral Rehabilitation
- 14. Oral Health

4. STRUCTURE OF THE ACADEMIC YEAR 2021-2022

The academic year consists of two semesters with 14-weeks terms, each followed by a 4-week exam session.

The study programs are harmonized with the European Regulations regarding mutual recognition of diplomas in the European Union, while the syllabuses are permanently updated and modernized.

Dental higher education is provided in a linear system over 6 years (12 semesters). The courses are grouped into the following categories: mandatory, elective and optional.

Mandatory courses provide students with the fundamental concepts required by their future profession, while elective and optional courses facilitate the deeper understanding of specific knowledge in the field and personalized professional development, according to the student's skills and needs.

Studies and activities are quantified and validated on the basis of The European Credit Transfer and Accumulation System (ECTS). In the case of the program studies taught in French and English, beginning with the fourth year of study, the theoretical classes are in English and French, as for the first years, whereas, practical activities are in Romanian.

4.1. Structure of linear undergraduate studies **4.1.1.** Undergraduate studies

Dental Medicine (1 ST to 5 TH Year) and Dental Technology (1 ST and 2 ND Year) First Semester

27 September – 17 December 2021	Classes (12 weeks)
20 December 2021 - 31 December 2021	Christmas Holiday (2 weeks)
03 January 2022 – 14 January 2022	Classes (2 weeks)
17 January 2022 – 11 February 2022	Examination Session (4 weeks)
14 February 2022 – 18 February 2022	Winter Holiday (1 week)

Second Semester

21 February 2022 – 03 June 2022	Classes (14 weeks)
	Easter holiday (1 week, 25-29 April 2021)
06 June 2022 – 01 July 2022	Examination session (4 weeks)
11 July 2022 – 14 July 2022	Reexamination Session 1
19 July 2022 – 22 July 2022	Reexamination Session 2
25 July 2022 – 30 September 2022	Medical P4.1 practice and summer holiday

At our faculty, during the Summer Vacation, students must perform a number of 160 hours of dental practice.

4.1.2. Undergraduate studies Dental Medicine (6thYear)

First Semester	
27 September – 17 December 2021	Classes (12 weeks)
20 December 2021 - 31 December 2021	Christmas Holiday (2 weeks)
03 January 2022 – 14 January 2022	Classes (2 weeks)
17 January 2022 – 11 February 2022	Examination Session (4 weeks)
14 February 2022 – 18 February 2022	Winter Holiday (1 week)

Second Semester

21 February 2022 – 03 June 2022	Classes (14 weeks)
	Easter holiday (1 week, 25-29 April 2021)
06 June 2022 – 24 June 2022	Examination session (3 weeks)
July 2022	Final license exam Dental Medicine English
	and French sections

4.1.3. Postgraduate studies

PhD Degree - Doctoral School

The Structure Of Academic Year (2021-2022)

Principles:

- Classes: 28 weeks;
- Research methodology is studied in a conventional (continuous) manner;
- The other subjects are studied in modules.

Admission to the Doctoral School:

- 07-11 September 2020 enrolment
- 21-28 September 2020 admission exam
- 01 October 2020 candidates registration

12 October 2020-28 of May 2021

- Teaching activities organized for the year of advanced academic training, including:
 - o Christmas Holiday: 21.12.2020 10.01.2021
 - o Easter Holiday: 26.04.2021 09.05.2021
 - o 25 May 2020 -5 June 2020: Examination Session (1 Session)

The schedule of the research projects presentations for the PhD studies:

- Candidates who completed the advanced university training year:
 - o 07.06 11.06.2021: Project titles and appointing the admission panel submission
 - o 14.06 25.06.2021: Presentation of research project.

5. STUDENTS REGISTRATION TO THE FACULTY OF DENTAL MEDICINE

5.1. Registration in the First Year shall be as follows:

- The enrollment for studies of the candidates admitted and confirmed following the written entrance exam, is made on the basis of the enrollment decision issued by the Rector.
- The enrollment in studies is made after the completion, by the student, of a file
 of enrollment in the faculty and is conditioned by the signing of the study
 contract.
 - Upon enrollment, each student will be given a unique enrollment number, valid for the entire period of schooling in the faculty in which he was admitted. These numbers are awarded successively for each series of students by field / curriculum / language of instruction. The student re-enrolled by the decision of the Rector, will receive the same registration number under which he was initially enrolled.
 - Students coming through permanent mobility (transfer) or admitted / enrolled in the senior year will receive a unique registration number, according to the procedure for assigning the registration number.
- Registration of students paying tuition is conditioned by signing the study contract and paying the tuition fee.
- For foreign students, scholarship holders of the Romanian state and on their own non-currency account, registration is made on the basis of the nominal order issued by the Ministry of Education and Research (MER), based on the approval issued by the university management and signing of the study contract.
- For international students on their own currency account, registration is made on the basis of the provisional registration document issued by the International Students Department, and an acceptance letter, where applicable. The final registration is made:
 - After recognition and equivalence of high school studies by the Ministry of Education and Research;
 - After verification and approval of the student's personal file by the Ministry of Education and Research;
 - On the basis of the MER order for final registration;
 - On the basis of Rector's decision; before the 1st of December of the current academic year
 - The complete file of foreign students, prepared at the International Students
 Department, is handed over to the Dean's office after its verification and
 approval by the relevant ministry, according to the admission schedule for
 the current academic year.

- Applicants accepted in the 1st year of study and not registered in the timeframe decided by the University Board, loose their right to get registered
- According to the order of MER each student can attend only one public budget supported specialization. A second specialization can be attended upon payment.

International students are welcome, both in the academic community and in the civic community of our city. In addition to medical education in the Romanian language, in the faculty, there have been teaching lines in English and French languages for over ten years, with increasing attractiveness for many students from over 25 countries.

International students are admitted to studies following the evaluation of documents certifying school performance and personal achievements. The admission methodology is validated by the University Senate and completed with a series of criteria specific to the Faculty of Dentistry and approved by the Faculty Council.

Candidates must have their high school studies completed with the baccalaureate exam or its equivalent and confirmed by the MER. All documents presented must be legalized.

Candidates admitted in the first year and not enrolled within the period set by the university management, lose the right to be registered.

Each student is registered in the matriculation register under a unique number, valid for the entire period of schooling, at the study program to which he/she was admitted.

The student's file, for the entire schooling period, includes documents according to Art. 30, of the Regulation of didactic activity for the license cycle for the academic year 2021-2022 included in the annexes of the Regulation:

- Romanian citizen student Annex 1
- Student citizen of the European Union Annex 2
- Student citizen from third countries of the European Union Annex 2

Upon enrollment of the student in the faculty, a personal file is prepared which will include:

For romanian students, the personal file will include:

- The baccalaureate degree in the original. For students who attend the second faculty on a place with fee, a certified copy of the baccalaureate diploma is presented, as well as a certificate that they were a budget student, issued by the faculty where the original baccalaureate diploma is located,
- For graduates of an university on budget places, who follow the second faculty under the fee regime, a certified copy of the bachelor's degree is also required,

- The registration form,
- Birth certificate in legalized copy,
- Acceptance, under signature, of knowledge and compliance with the teaching regulations and examination of students, as well as of the study contract,
- Four passport photos,
- Signed contract studies.

For foreign students, the personal file will include:

- Baccalaureate diploma in the original and its translation into a language of international circulation, legalized, and targeted by the Embassy of the issuing country in Romania,
- The language test (Romanian, French or English), depending on the language of teaching section to which the student requests to be registered,
- Passport copy,
- Birth certificate in legalized copy,
- Ordinal MER including scholarship, on their own account lei, non-currency, currency,
- The registration form,
- Medical analyses established by the university's management,
- Acceptance, under signature, of knowledge and compliance with the teaching regulations and examination of students, as well as of the study contract,
- Four passport photos,
- Study contract.

Enrollment in studies of foreign students is made within a maximum of 15 days from the

beginning of the academic year.

The complete file of foreign students, drafted in the Department for International Students, is handed to the Dean's Office, after being verified and approved by the MER, according to the admission calendar for the current academic year.

Enrollment in studies of foreign students is made within a maximum of 15 days from the beginning of the academic year.

Also provided in the Regulation of didactic activity, the necessary documents: to the transferred student Annex 3, to the re-enrolled student Annex 4, to the student in mobility Annex 5, as well as other necessary documents Annex 6.

The student has the obligation to complete the personal file, throughout the study program, with documents regarding the modification / updating of the existing information. The modifications will be brought to the notice of the secretariat within 30 days from their occurence.

At the beginning of the academic year, the Dean's Office will issue a "Student Grade Book" to each student. All grades obtained in exams or other forms of knowledge evaluation, including grades from failed exams, are written in the Student's Grade Book. The marks will be written and signed by the examining teacher. In cases of transfer, interruption or expulsion from studies, the Dean's Office will withdraw the student grade book and, where appropriate, the transport card.

Enrollment of the student in the Second Year and in the following years of study is based on the completion of the registration form and signing the "Tax" Annex to the study contract. The sheet shall be completed within the first 15 days of the beginning of the academic year. Enrollment is based on the professional results and marks obtained in the previous academic year, with the obligation to acquire the minimum number of credits needed to promote a university year (minimum 50 credits). (Art. 64. of the Regulation states that for the promotion in a year of higher education it is necessary that the amount of remaining credits from the lower years does not exceed 10 credit units.)

For years I-III, a student who has subjects not promoted in the years of schooling totaling 10 or less than 10 remaining credits, will be enrolled in the year of study superior to the one from which he / she comes; for years I-III, the student who totals more than 10 remaining credits for the subjects not promoted, will be enrolled in a complementary year; for years IV-VI, a student is enrolled in the senior year if he / she passes all 60 ECTS credits related to the current year (he / she is an integralist).

The students declared in the complementary year will be enrolled in the year of studies that they repeat, and will pay their financial obligations at the terms and amounts established annually by the university management.

6. EUROPEAN TRANSFERABLE CREDIT SYSTEM

The European Credit Transfer and Accumulation System (ECTS) was created with the aim of facilitating the mobility of students from one university to another. The European Union encourages study periods at partner universities, and the Bologna and Berlin Declaration affirms the need to overcome obstacles to academic mobility.

The student mobility of the Socrates - Erasmus programs offers the possibility for students to study for a semester or year at another European university, and then, return to the home university, where they will finish their studies and from where, they will receive their diploma. In this way, the student benefits from continuity of studies in conditions where he has access to other educational programs and to a new cultural, social and linguistic academic

environment. The enrollment of international students coming through Erasmus +, SEE programs, within other programs or mobility agreements is presented in Chapter 7 of the Teaching Activity Regulation. The main objective of creating this system was to support the mobility of students in order to be able to complete their training by adding the experience of other European universities and to obtain total academic recognition for the period they spent away from the institution of origin.

Total academic recognition translates into the replacement of a period of study at the university of origin with the period spent at the university abroad, without the studies in the country of origin being extended by that period.

ECTS credits

ECTS credits are the amount allocated to courses and practical activities in order to evaluate the efforts required for students to accumulate the notions. They reflect the efforts made to complete a course, compared to the total effort made to graduate a university year in this institution, a process that involves: courses, seminars, practical activities, individual work in the laboratory, library and home, exams and other types of evaluation.

In the ECTS system, 60 credits represent one year of study (work done that year); usually, 30 credits are allocated for each semester.

ECTS credits are also allocated to practical activities and the preparation of the bachelor's thesis, when they are part of the normal program of studies at both, the institution of origin and the host institution.

Each course is allocated a number of credits, given by the volume of activity necessary to study and promote the discipline, which will be obtained only by students who fully promote the activities following the exams or other types of assessment.

The student can follow, during a university year, several optional courses, the credits obtained in addition constitute additional credits, they cannot replace the credits related to the compulsory subjects.

ECTS Scoring Scale

In general, the results of the examination and evaluation are expressed in grades. There are various scoring systems in Europe, which is why an ECTS Scoring Scale has been created to match the grades that students obtain at the host university. This procedure provides other information about the work done by the student, but does not replace the grade that the student will receive at the university of origin.

How to apply the scale

The main ECTS tools to facilitate academic recognition are:

• Information package

- Study contract (Learning Agreement)
- Transcript of Records
- The information package is provided by all institutions wishing to use the ECTS system; it details the courses available at that university. Also, general information about the institution, its location, student accommodation, administrative procedures necessary for registration and academic calendar are provided. This package shall be updated annually.
- The Learning Agreement describes the study program abroad and is completed by the student, in collaboration with the two academic institutions, before it reaches the university host of study abroad. It contains, in addition to the ECTS credits granted, the grade received by the student under the local system, as well as, the ECTS scoring grid. The combination of ECTS credits and grades obtained according to the local system describes quantitatively and qualitatively the activity done by the student within the university host.

These tools are then used by department and institutional coordinators on ECTS administrative and academic issues, appointed by each institution. Using ECTS, ensures the transparency of the curricula and academic performance of students, thus, creating the correct framework for academic recognition at European level.

How to achieve mobility in the ECTS system

Contact the department coordinator of the institution to which it belongs and go through the information package of other institutions to choose the optimal destination and prepare their program of studies abroad.

Academic recognition

The ECTS study program must be approved by both, the university of origin and the one receiving the student, before the student moves to that country. If the academic program described in the study contract is satisfactorily fulfilled by the student, it will be fully recognized by the university of provenance. This means that the volume of study accumulated at the university-host transposed into ECTS credits will be the equivalent of the same volume of study that the student should have accumulated at the home university.

Transfer of ECTS credits

Academic institutions prepare and transmit to each other transcripts for each student who benefits from ECTS mobility. A copy of the transcript remains

with the student and is verified by the university of provenance and the host, before and after the deployment of mobility.

Continued studies abroad in the ECTS system

A student who has obtained from ECTS mobility can stay at the host university to complete their studies there or to collaborate with a third institution for his/her training. This is possible, with the condition that both institutions are in agreement and that the student accepts the conditions for obtaining a diploma or transfer.

The Transcript of Records provides a history of the student's academic journey; it is the document on the basis of which institutions make decisions on the continuation of studies in ECTS mobility and the European openness to academic mobility in general.

Student assessment criteria and ECTS Scoring Scale

Courses and modules of study are evaluated by written and oral examinations, practical work, demonstrations and other applicable methods. Students receive information about the evaluation criteria at the beginning of the study module.

ECTS	Marks in	Definitions
	Romania	
A	10	Excellent – special presentation, with minor mistakes
В	9	Very good - above average presentation with minor mistakes
C	7 - 8	Good presentation with a few considerable mistakes
D	6	Satisfactory - medium, with significant lags
Е	5	Enough - the minimum knowledge required
Fx	4	Failed - requires more work to receive credits
F	3	Failed - a lot of extra work is required

For further information on the ECTS credit system and its application in the UMF "Iuliu Haţieganu" Cluj-Napoca, please visit the regulation of the European Credit Transfer and Accumulation System credits (ECTS) on the following link:

• http://www.umfcluj.ro/university/regulation ects.pdf

ECTS Coordinators

ECTS Coordinators on	Vice-Rector Prof. Dr. Carmen Mihu
University	
Faculty of Medicine	Vice-Dean Prof. Dr. Simona Clichici
Faculty of Dental Medicine	Vice-Dean Prof. Dr. Ondine Lucaciu

Faculty of Pharmacy | Vice-Dean Prof. Dr. Bela Kiss

Teaching language

The teaching language at UMF "Iuliu Haţieganu" as well as at the Faculty of Dental Medicine is Romanian. The Faculty of Dental Medicine also offers lines of study in English and French.

Language opportunities

All students of our university have the opportunity to study a European language. Through these courses, students are able to acquire practical skills – reading, writing, understanding the language. All facilities of the Department of Modern Languages are available to both students and teachers from the University.

Scholarships

UMFIH may offer scholarships to foreign citizens from the extra-budgetary income. The performance scholarship is awarded during a one-semester academic year, based on the academic performance of the previous semester.

The professional performance scholarship is awarded starting with the second semester of the first year of study and is up to 50% of the student's tuition fee for that semester. The scholarship fund is allocated by the decision of the UMFIH Senate, is allocated to faculties, years of study and study programs, proportional to the number of foreign students who study on their own currency, registered for the day classes.

The ones who can benefit from these scholarships are only foreign citizens who study on their own currency and have carried out all the teaching activities in the educational plan, with no remaining credits from previous years and are integralists at the time of the scholarship.

Accommodation and meals

The University owns its own campus; a total of 9 dorms have a capacity of 2700 seats. Most Romanian students from outside Cluj live in the university dormitories. Foreign students often prefer to live in rented apartments. The University Restaurant, located near the campus, offers diverse menus and has a capacity of 150 seats. There are also a multitude of restaurants and fast food restaurants with reasonable prices in the city center and near the medical institutions where the courses take place.

Healthcare

The student clinic is located in the center of the city, near the administrative building of the University. Here, students can benefit from a wide range of free

medical services. The Student Pharmacy offers free drugs based on prescriptions issued by the Student Medical Service.

Sports

The Student Sports Club, founded in 1966, has a court and a gym where students can practice basketball, volleyball, football, aerobics, tennis, etc.

7. THE STRUCTURE OF THE LEARNING PLAN

7.1. The Courses Structure

The structure of all the study programs issued by the UMF is based on the academic year system divided into two semesters. The course education is linear, with 2 sessions, one at the end of each semester (winter and summer).

The studies include theoretical courses, clinical internships, seminars, practical work, optional courses, facultative courses and the bachelor's exam. The courses of the dental medicine program aim to familiarize students with the main applications of this professional field and their theoretical basis. After graduation, the student must be able to work independently as a dental expert or researcher.

Language studies are absolutely necessary for Romanian students, because obtaining a good level of competence in a foreign language is essential in completing training and maintaining professional knowledge, as well as, for medical practice, in relation to the increasing mobility of citizens of the European Union and other countries. The Faculty supports foreign students with the study of the Romanian language because from the fourth year, the clinical internships are carried out in the Romanian language.

Optional Courses

Each academic year is allocated a number of optional courses. Students can choose such a course, which will then, become mandatory for the study. According to the university curriculum, each optional course is allocated 14 hours/semester and 2 ECTS credits.

Facultative Courses

In each academic year to the mandatory courses, there are added a number of facultative courses. They are intended to deepen the knowledge gained during the mandatory courses. The choice of these courses, their attendance and related examinations are not mandatory. Facultative courses are not credited.

7.2. License Examination

The final exam at the UMF "Iuliu Haţieganu" is the license exam. For university studies, the bachelor's exam consists of 2 exams:

1. Dental Specialty Examination

- Written Examination: national component of the bachelor's exam, supported by all universities of profile on the same day and on the same bibliography.
- Practical Examination: specific to each Faculty of Dental Medicine.

2. Oral presentation of the BachelorThesis

- The minimum average for passing the license exam is 6 (six).
- The bachelor's exam is held in July 2021, and students who have not fulfilled the necessary credits for entry the license exam by the end of the year, may have the possibility of another session in February next year.

The Faculty of Dental Medicine published a practical guide addressed to students for preparing their graduation thesis (http://www.meddent.umfcluj.ro/en/educatie-stoma-uk/studenti-md-uk/licenta-md-uk).

8. ORGANIZATION OF DIDACTIC ACTIVITIES, EXAMINATIONS, PROMOTION OF THE UNIVERSITY YEAR

In order to fully achieve the number of credits related to a study discipline, students are required to participate in at least 70% of the courses of that discipline. Absences in an amount greater than 30% of the total class hours result in the student not being admitted to the exam in that session. Recovery of absences from class is done within the same week (no fees are charged for absences from classes). The practical activity program must be completed in full by each student. Attendance at practical activities (internships, practical works, seminars) is mandatory, unrecovered absences are not allowed for practical works / internships. The recovery percentage is a maximum of 20%. The Regulation of teaching activity provides the conditions and documents necessary to motivate absences.

The assessment of students 'knowledge is done through exams (they are scheduled between 8.00-20.00, it is not allowed to exceed 20.00), and the assessment of students' knowledge is done with grades from 1 to 10. The minimum promotion grade is grade 5. Final forms examination are represented by: the theoretical examination and the practical examination. The disciplines to which, specifically, a practical exam cannot be associated, will carry out, instead, a final evaluation colloquium. Passing the final exam is conditioned by obtaining the passing grade (minimum 5) for both forms of examination (both written and practical). If the student is present at one test of the exam but is absent at the

second, for the absent test the point is awarded ex officio and the student is declared unpromoted. At the re-examination the student only participates in the examination that was not passed.

Students will be admitted to the exam only with the student card (or with a temporary certification issued by the Dean's Office) and with his/her ID card or passport. When entering the examination room, the students are identified by the examiners based on these documents.

Before the beginning of the academic year, each discipline will have to post (1) the syllabus, the lectures and practical activities aims, the examination topics, the bliographic references, how the evaluation will be performed and the grading criteria. (2) During the first lecture, the teaching staff will inform the students about the examination protocol and the specific requirements. (3) The examination can be performed as a written test, oral exam, practical skills evaluation or any other type of knowledge assessment.

The promotion of the first year of studies requires obtaining at least 50 credits from the total of the 60 credits allocated to one year of study. For promotion in a year of higher education it is necessary that the amount of transferable credits from the lower years does not exceed 10 ECTS. The calculation of credit units obtained in an academic year does not include credit units in that year from remaining credits. For transferred credits, a fee is paid according to the Annex "School fees" of the Regulations for teaching and professional activity of students. (See ART 40 - Didactic activity regulations). The remaining credits will be promoted within 2 years of their non-promotion, otherwise, the student will be placed in the complementary year.

Presentation of a student at the examination, for a given subject, is admitted only 3 times, during a university year. The curriculum comprises of 4 exam sessions (for linear education: winter session, summer session and two reexamination sessions). For the third presentation on the exam, the student will pay a fee according to "School Fees". Exams are held only during sessions for linear education. Students are obliged to comply with the exam dates set by the department in agreement with the representatives of each series. Failure to take the exam on the set dates results in the loss of an opportunity to take the examination.

In the disciplines in which the knowledge verification will be done in the form of a complex examination completed by a single grade, in the written exam each discipline will assign a number of questions proportional to the weight of its activity hours; the practical exam will be unique and will be held at the end of the activity, and the final grade will be calculated by the proportionality ratio between the different disciplines, according to an algorithm accepted and announced in advance.

In order to support the written examinations, the dates of exams will be agreed with the students' representatives, each department being obliged to submit at least two days for a series. If the theoretical examination is taken on the same day for the whole series, the practical examination shall not exceed the duration of 3 successive days.

The re-examination for the change of the current mark shall be carried out with the approval of the Faculty Council, as follows: maximum 6 re-examinations during the schooling year and no more than 2 re-examination per year. The mark obtained at the re-examination shall be final mark. The re-examination is supported by a committee of three teachers. The score obtained is included in the calculation of the average for obtaining the social rights of students. The fee for these exams is set out in the Annex "School Fees". In order to request a re-examination to increase the mark, a student must be an integralist.

The student who tries to pass the exams by fraud will be sanctioned. The sanctions that may be proposed by the faculty management can be found in Chapter XV – Rewards and Sanctions of the Regulation on the organization and conduct of the teaching activity in the licence program.

Grades are not displayed at the disciplines headquarters.

9. REGULATION FOR STUDY EQUIVALATION

Performed in other medical education institutions by students applying for registration in a university year other than Year 1 or Year 6 of studies. The provisions of this Regulation apply both, to foreign students applying for registration and to Romanian students applying for transfer or equivalence and who have completed part of their studies in another Romanian institution. Studies are not equivalent to the year in which the student is enrolled. Studies more than 6 years from the date of their promotion shall not be equivalent.

For the study equivalence, the following conditions are mandatory to fulfill:

- The content of the subjects studied (attested by **the analytical syllabus**) and the duration (attested by the **Curriculum**) corresponds to the program of the equivalent curriculum of UMF Cluj-Napoca in the percentage of at least 70%;
- The amount of credits transferable by the lack of study of some subjects from the Analytical Program of the Faculty of The U.M.F. Cluj-Napoca (difference exams) *cannot exceed 15 credits*(without Physical Education and Romanian Language).
- For students who have graduated from EU accredited universities, subjects relating to the year in which they will be registered may also be equivalent with

- the condition that the difference between the remaining credits and the additionally recognized credits does not exceed 15 credits.
- Students will present an official certificate showing the scoring system applied in the institution where they studied, as well as, its equivalence with the ECTS system.
- Only subjects inwhich the applicant has passed the examinations in the educational institution where he has completed his studies will be taken into account.
- Clinical modules performed, but not followed, and the promotion of the related examination will not be recognized.

For the study equivalence, the applicant shall present the following documents in the original:

- Proof of schooling with the results of the examinations;
- The curriculum;
- The analytical syllabus of each subject for which equivalence is requested;
- The official explanatory note on the scoring system applied in the educational establishment where he studied, as well as the correspondence of this system with the ECTS system;
- Envelope folder;
- A written request stating the subjects for which equivalence is requested;
- Request for equivalence of studies from the Didactic Protectorate.

All documents requesting the equivalence of studies shall be submitted **only once.** Further additional files are not accepted. Only studies completed in medical higher education institutions with the purpose of which is to obtain a dental degree, may be equivalent. The equivalence of studies carried out within the faculties of biology, veterinary medicine, nurses, medical colleges or master's studies, etc. is not accepted.

This Regulation is an Annex to the study contract

Applications for equivalence of studies will be submitted to the Dean's Office by 15th October at the latest, for the current academic year, or, with the approval of the Senate Office, by the deadline for the enrolment of foreign students in our university, date set by the Senate Office in accordance with the Ministry of Education and Research.

The evaluation of the dossiers for the equivalence of studies shall be carried out by a designated member of the Faculty management and shall be approved by minutes by the Faculty management with the signature of all the members of the Council.

The evaluation of the dossier shall be carried out within a maximum of 15 days from the date of its receipt at the Dean's Office.

The Faculty management has the right to request and take into account the opinion of the Disciplines holders of those subjects for which the duration of the studies or/and the content of the analytical programs does not coincide with those of the faculties to which registration is requested.

Any objections to the decision of the Faculty management shall be lodged within a maximum of 48 hours of the notification of the decision to the applicant. Disputes shall be discussed by the assessor appointed by the Council and the applicant. The decision taken by the Faculty management following the discussion of the appeal shall be final and unassailable.

10. SPECIFIC ACTIVITIES OF THE FACULTY OF DENTAL MEDICINE

10.1. Project: Promotion of oral health by increasing the accessibility of the disadvantaged population to the dental treatment

Project acronym "SANODENTAPRIM"

In this project are enrolled all the teachers and residents from the Faculty of Dental Medicine. It is addressed to the institutionalized persons (old people's homes, children's homes, etc.), geriatric, unemployed people (up to 26 years of age) who do not earn a substantial income. Beneficiaries will be defined in detail and all eligible persons will be nominated by the funder.

The estimated number of beneficiaries of the project is 1200.

10.2. Organization of Dental Students

Acronym "OSS" is a student, non-governmental and apolitical organization of the University of Medicine "Iuliu Hatieganu", Cluj-Napoca. The main goal is to represent students from the Faculty of Dental Medicine and their professional, social and cultural development through the projects and activities they carry out. Among the existing projects of the organization, the following should be mentioned:

- DENTIS
- Dental Care Prophylaxis
- Student Circle of Dentistry
- InterDentis
- Support for First Year
- InfoDent
- Open Day

10.3. Exercise of the profession as a dentist

The Diploma of Dentist, awarded by University of Medicine "Iuliu Hatieganu", Cluj-Napoca, Faculty of Dental Medicine, allows the exercise the profession of dentist as a liberal profession, immediately after graduation accompanied by the membership of the College Dentists of Romania (according to the regulation of Law No. 95/2006).

11. DENTAL MEDICINE CURRICULUM

According to Art. 88 of the Regulation of teaching activity for the license program for the academic year 2021-2022:

- (1) At the beginning of the academic year, each discipline must display the discipline sheet which must contain the analytical syllabus, the educational objectives of the course and of the practical works, the examination topic, the reference bibliography and the evaluation and grading modalities.
- (2) Each teacher is obliged to explicitly mention the evaluation methods, the conduct of the exam, the requirements that students must meet in order to take the evaluation, either during or final in the Discipline Sheet.
- (3) The discipline sheet is brought to the knowledge of the student by the head teacher of the discipline within the first course of the semester / module.
- (4) The discipline sheet does not change during the year.
- (5) The discipline file is submitted by the head teacher to the faculty secretariat in physical format, assumed by signature, annually, in the first 2 weeks from the beginning of the academic year.

Nr.	1 st year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Anatomy and Embriology	28	28	5	I	E1
2	Biochemistry	14	21	2	I	E1
3	Oral Cavity Biochemistry	14	21	2	I	E1
4	Medical communication	14	14	2	I	V1
5	Physiology	28	28	5	I	E1
6	Hystology	14	28	3	I	E1
7	Medical Informatics and biostatistics	14	28	3	I	E1
8	History of Dental Medicine	14	0	2	I	V1
9	Medical First Aid	14	14	2	I	E1
10	Behavioral Sciences	14	14	2	I	V1
11	Anatomy and Embriology	42	42	5	II	E2
12	Biophysics	14	28	3	II	E2
13	Cellular and Molecular Biology	28	28	4	II	E2
14	Physiology	28	28	4	II	E2

15	Hystology	28	28	4	II	E2
16	Romanian language	0	56	2	I,II	C1,2
	Morphology of teeth and dental					
17	arches	28	56	6	II	E2
18	Medical practice	-	160	2	II	C2
19	Sport	-	28	2	I,II	C1,2
20	Optional course	14	-	2	I	V1

Nr.	2 nd year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Pathological Anathomy	28	42	5	I	E1
2	Ethics and Academic Integrity	14	0	2	I	V1
3	Physiopathology	28	28	5	I	E1
4	Genetics	14	14	2	I	E1
5	Dental Materials	14	42	6	I	E1
6	Microbiology	14	28	3	I	E1
7	Morphology of teeth and dental arches	14	28	3	I	E1
8	Medical psychology	14	14	2	I	E1
9	Dental Ergonomics	28	28	5	II	E2
10	Immunology	14	14	2	II	E2
11	Romanian language	0	56	2	I,II	C1,2
12	Dental Materials	28	42	6	II	E2
13	Medical Research Methodology	14	28	2	II	E2
14	Microbiology	14	14	2	II	E2
15	Periodontology	14	28	3	II	E2
16	Medical practice	0	160	2	II	C2
17	Dental Technology	28	56	6	II	E2
18	Sport	0	28	2	II	C2
19	Optional course	14	0	2	II	V2

Nr.	3 rd year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	General Surgery	28	14	2	I	E1
2	Gynecology	14	14	2	I	E1
3	Internal Medicine	28	28	4	I	E1
4	Odontotherapy	28	56	6	I	E1
5	Oro-dental prevention	28	42	4	I	E1
6	Pathological Anathomy	28	42	5	I	E1

7	Dental Materials	14	42	5	I	E1
	Anesthesia and sedation in dental					
8	medicine	28	42	5	II	E2
9	Endodontics	28	56	5	II	E2
10	Hygiene	14	14	2	I	E1
11	Internal Medicine	14	28	3	II	E2
12	Oro-dental prevention	28	42	4	II	E2
13	Prosthetic Dentistry	28	56	6	II	E2
14	General Radiology	14	28	3	II	E2
15	Medical practice	0	160	2	II	C2
16	Optional course	14	0	2	I	V1
17	Romanian language	0	112	2	I,II	C1,2

Nr.	4 th year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Infectious Diseases. Epidemiology	28	28	3	I	E1
2	Oral and maxillo-facial surgery	28	42	5	I	E1
3	Odontotherapy	28	42	6	I	E1
4	Pedodontics	28	42	5	I	E1
5	Prosthetic Dentistry	14	42	4	I	E1
6	Radiology in dental medicine	28	28	3	I	E1
7	CAD/CAM Systems	14	14	2	I	E1
8	Endodontics	28	56	6	II	E2
9	Endocrinology	14	14	2	II	E2
10	Neurology. Phychiatry	14	14	2	II	E2
11	Occlusion	28	42	5	II	E2
12	Ophtalmology	14	14	2	II	E2
13	Oto-Rhino-Laringology	28	28	3	II	E2
14	Pediatrics	14	28	2	II	E2
15	Pneumophtiziology	14	14	2	II	E2
16	Prosthetic Dentistry	14	42	4	II	E2
17	Medical practice	0	160	2	II	C2
18	Optional course	14	0	2	I	V1

Nr.	5 th year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Oral and maxillo-facial surgery	42	49	6	I	E1
2	Esthetics in dental medicine	14	14	2	I	E1

3	Management of the Dental Office	28	21	4	I	E1
4	Forensic Medicine	14	14	2	I	E1
5	Preventive medicine	14	14	2	I	E1
6	Periodontology	28	49	5	I	E1
7	Oral Rehabilitation	28	49	5	I	E1
8	Dental Implantology	14	28	4	I	E1
9	Medico-surgical emergencies in dental medicine	28	56	5	II	E2
10	Dermatology	14	14	2	II	E2
11	Odontotherapy	14	42	4	II	E2
12	Orthodontics and Dento-Facial Orthopaedics	28	49	5	II	E2
13	Periodontology	28	49	5	II	E2
14	Prosthetic Dentistry	28	56	5	II	E2
15	Medical practice	0	160	2	II	C2
16	Optional course	14	0	2	II	V2
17	Bachelor Thesis Report	0	50	2	II	E2

Nr.	6 th year 2021-2022 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Oral and maxillo-facial surgery	28	42	5	I	E1
2	Dental Implantology	28	42	5	I	E1
3	Orthodontics and Dento-Facial Orthopaedics	28	49	5	I	E1
4	Oral Pathology	28	21	3	I	E1
5	Prosthetic Dentistry	28	49	6	I	E1
6	Oral Rehabilitation	28	49	6	I	E1
7	Oral and maxillo-facial surgery	14	42	5	II	E2
8	Medical Deontology. Bioethics	14	14	2	II	E2
9	Physiotherapy in Dentistry	14	28	2	II	E2
10	Dental gerontology	14	28	2	II	E2
11	Professional Organization and Legislation	28	28	5	II	E2
12	Pedodontics	28	56	6	II	E2
13	Public Health in Dentistry	28	56	6	II	E2
14	Optional course	14	0	2	II	V2
15	Bachelor Thesis Report	0	100	2	II	E2

12. COMPULSORY COURSES

1st year

ı yet	••• •
1	Anatomy and Embriology
2	Biochemistry
3	Oral Cavity Biochemistry
4	Medical communication
5	Physiology
6	Hystology
7	Medical Informatics and biostatistics
8	History of Dental Medicine
9	Medical First Aid
10	Behavioral Sciences
11	Anatomy and Embriology
12	Biophysics
13	Cellular and Molecular Biology
14	Physiology
15	Hystology
16	Romanian language
17	Morphology of teeth and dental arches
18	Medical practice
19	Sport

2nd year

1	Pathological Anathomy
2	Ethics and Academic Integrity
3	Physiopathology
4	Genetics
5	Dental Materials
6	Microbiology
7	Morphology of teeth and dental arches
8	Medical psychology
9	Dental Ergonomics
10	Immunology
11	Romanian language
12	Dental Materials
13	Medical Research Methodology
14	Microbiology
15	Periodontology

16	Medical practice
17	Dental Technology
18	Sport

3rd year

1	General Surgery
2	Gynecology
3	Internal Medicine
4	Odontotherapy
5	Oro-dental prevention
6	Pathological Anathomy
7	Dental Materials
8	Anesthezia and sedation in dental medicine
9	Endodontics
10	Hygiene
11	Internal Medicine
12	Oro-dental prevention
13	Prosthetic Dentistry
14	General Radiology
15	Medical practice
16	Romanian language – specialty notions

4th year

1	Infectious Diseases. Epidemiology
2	Oral and maxillo-facial surgery
3	Odontotherapy
4	Pedodontics
5	Prosthetic Dentistry
6	Radiology in dental medicine
7	CAD/CAM Systems
8	Endodontics
9	Endocrinology
10	Neurology. Phychiatry
11	Occlusion
12	Ophtalmology
13	Oto-Rhino-Laringology
14	Pediatrics
15	Pneumophtiziology

16	Prosthetic Dentistry
17	Medical practice

5th year

1	Oral and maxillo-facial surgery
2	Esthetics in dental medicine
3	Management of The Dental Office
	<u>~</u>
4	Forensic Medicine
5	Preventive medicine
6	Periodontology
7	Oral Rehabilitation
8	Dental Implantology
9	Medico-surgical emergencies in dental medicine
10	Dermatology
11	Odontotherapy
12	Orthodontics and Dento-Facial Orthopaedics
13	Periodontology
14	Prosthetic Dentistry
15	Medical practice
16	Bachelor Thesis Report

6th year

1	Oral and maxillo-facial surgery
2	Dental Implantology
3	Orthodontics and Dento-Facial Orthopaedics
4	Oral Pathology
5	Prosthetic Dentistry
6	Oral Rehabilitation
7	Oral and maxillo-facial surgery
8	Medical Deontology. Bioethics
9	Physiotherapy in Dentistry
10	Dental gerontology
11	Professional Organization and Legislation
12	Pedodontics
13	Public Health in Dentistry
14	Bachelor Thesis Report

13. OPTIONAL COURSES

The curriculum includes compulsory and optional subjects. Each academic year is assigned a number of optional courses. Students can choose such a course, which will then become mandatory for study. According to the university program, each optional course is allocated 14 hours / semester and 2 ECTS credits.

Credits for optional subjects can be allocated to any of these subjects, by choosing, attending and promoting it. Once chosen, the optional subject becomes mandatory. The registration for the optional courses and the organization of their activity is done according to the own methodology approved by the council of each faculty.

The student can take, during a university year, several optional courses. The credits obtained in addition constitute additional credits. The additional credits may not replace the credits relating to the compulsory subjects.

Optional courses for students of the Faculty of Dentistry Academic year 2021 - 2022

STUDY YEAR	COURSE	DISCIPLINE
I	Risks associated with drug consumption	Toxicology (Pharmacology)
II	Prophylaxis of dento-maxillary anomalies	Pedodontics
III	Oro-dental health of children and adolescents in the context of general health	Pedodontics
IV	Innovative methods for tissue regeneration in dentistry	Oral Rehabilitation
V	Virtual smile design – techniques and roles in the workflow of esthetic treatments	Dental Propaedeutics and Esthetics
VI	Orthodontics. Dental anomalies	Orthodontics

COURSE DESCRIPTION

1ST YEAR

Institution for graduate and postgraduate studies	University of Medicine and Pharmacy "Iuliu Haţieganu" Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters

Qualification		Doctor of Dental Medicine							
Department			1 Anat	1 Anatomy and Embriology					
Discip	line			Anator	ny and Er	nbriolog	y		
Cours	title			ANAT	OMY A	ND GEN	IERAL I	EMBRIOI	LOGY
Respo	nsible	for lectu	re	Lectur	er. Dr. B	adea Al	exandru		
Respo	nsible	for pract	tical	Teaching Assistant Dr. Budusan Maria					
activit	t y			Teaching Assistant Dr. Herdean Andrei					
The fo	rmativ	e catego	ry of	DF					
the di	scipline	2							
Comp	ulsory	disciplin	ie	Compu	ılsory				
* 7	hours/week		ho	urs/semes	ter	TD 4 1	G 11.	Type of	
Year S	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	2 2		28	28	69	125	5	Е

Pre-conditions (Preliminary	-
conditions)	
Requisites for lectures and	The course is organized for a whole series of students.
practical activities	Students will attend classes at the place and on the days
	set according to the schedule.
	The student's behavior must be civilized, adapted to academic life.
	Attendance at the course is mandatory, being accepted a
	maximum of 20% absences from the total course hours.
	The practical workshops are organized in groups of
	students.
	The students will present themselves at the workshops
	in the place and on the days established according to the schedule.
	The student's behavior must be civilized, adapted to academic life.
	Lack of respect for the teaching material will not be
	tolerated, whether it is anatomical pieces or a corpse.
	Students are required to participate in the ongoing
	checks, postponement without good reason is not
	accepted

Professional	Mastering anatomical terminology.				
competences	Acquisition by the student of an adequate medical language.				
	The acquisition by the student of the theoretical and practical				
	notions of the individual anatomical elements and of the				
	compound structures (systems of organs and apparatuses).				
	Correct mastery of exploration maneuvers and dissection				
	techniques of normal anatomical structures.				
	Descriptive and topographic recognition of the anatomical				

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	 elements of the human body. Correlation of knowledge of descriptive anatomy with live morphological exploration of the notions of radio-anatomy. 7. Correlation of the elements of topographic anatomy with some notions of medical semiology.
Transversal competences	 Concern for professional development by training critical thinking skills demonstrated through active participation in the course and laboratory / seminar / project; Involvement in scientific research activities by participating in the elaboration of papers, studies, specialized articles; Efficient use of information sources and resources of communication and assisted professional training (Internet portals, specialized software applications, databases, online courses, etc.) both in Romanian and in a language of international circulation; Recognition of the normal anatomical element and evaluation of its participation in achieving a pathological condition, anatomical support of any non-invasive exploratory act (CT, MRI) or invasive (surgical act).
General objectives	 Knowledge of the elements of descriptive and topographic anatomy of all components of the human body. Knowledge of regions and spaces of the human body on axial segments (head, neck, trunk) or appendicular (limbs) in the topographic anatomy. Knowledge of the complex morphology of organ and apparatus systems. Morphological exploration on the prepared piece (corpse) and of the macroscopic and digital anatomical sections. Acquiring international anatomical terminology (anatomical nomenclature).
Specific objectives	 Knowledge and understanding of anatomical elements. Recognition of all anatomical elements. Knowledge of the relationships between different anatomical elements. Study of topographic regions and sectional anatomy. It is proposed that at the end of the course students be able to through practical study on the corpse and on various anatomical preparations, study of imaging anatomy, understanding and deepening the notions of clinical anatomy, correlation of theoretical data with those of applied anatomy to achieve a solid anatomical training, necessary during the university period, which is indispensable for the future dentist.

	LECTURES
Teaching	Master class. Interactive presentation of the material according to
methods	the analytical program using multimedia means, powerpoint
	presentations, didactic films, specific software.
Content	1. The object of anatomy: man. Introduction to the study of anatomy;
	definition, means and methods of study; terms of orientation;
	anatomical nomenclature. Peculiarities of bipedalism; proportions of
	the human body. Age stages and their characteristics; human
	morphotypes; races
	2. General information about the musculoskeletal system: bones, joints,
	muscles
	3. Topographic regions of the upper limb
	4. Topographic regions of the lower limb
	5. Anatomy of the respiratory system
	6. Anatomy of the cardiovascular system
	7. Topographic anatomy of the thorax
	8. Anatomy of the digestive system
	9. Anatomy of the excretory system
	10. Topographic anatomy of the abdomen
	11. Anatomy of the genital system
	12. Topographic anatomy of the pelvis and perineum
	13. General embryology - development weeks I-IV
	14. Sectional anatomy
	PRACTICAL ACTIVITIES
Teaching	Checking the students' theoretical knowledge about the current work,
methods	proving by the student the knowledge of the dissection method,
	evaluating the way each student works.
Practical	Identification of macroscopic anatomical elements on cadaveric parts,
activity carried	macroscopic anatomical preparations, sections, anatomical and imaging
out by students	plates.
Content	1. Axes, planes, anatomical terms. The vertebral column and it's
	joints. The thorax and it's joints. Clavicle and scapula. Joints of the
	scapular belt. Bones of the upper limb and it's joints.
	2. The bony pelvis. The joints of the pelvic girdle. Bones of the lower
	limb and its joints.
	3. Upper limb topographic regions demonstration. The Brachial plexus
	4. Lower limb topographic regions demonstration. The Lumbar plexus
	and The Sacral plexus.
	5. Seminar: Osteology, limbs.
	6. The thoracic wall. The intercostal muscles and intercostal neuro -
	vascular bundle. The internal thoracic vessels. The thymus. The pleurae
	and the lungs. The pulmonary pedicle. The structure, nerves and blood
	supply of the lungs.
	7. The pericardium and the heart. External aspect and relations of the
	heart. The vagus nerves. The large arteries and veins at the base of the

	haant Tha aantia an	al The conding along	The beaut committee				
		ch. The cardiac plexus.					
		t vessels. Internal aspec					
			e trachea; The esophagus; the				
		• • • •	tem. The thoracic aorta. The				
	thoracic sympathet						
	9. Seminary: The the		mi				
	10. The abdominal organs normal position. The peritoneal cavity						
	topography. The Omental Bursa (the Lesser sac). The liver. The bile						
		i. The ileum. The caecui	m and the appendix. The				
	colon.						
		_	ım and the pancreas. The				
	•	rs. The inferior vena cav	va. The Aorta.				
	12. Seminary: The						
	-		eum. The urinary bladder				
			pes and the ovaries. The				
	broad ligament. Th	e perineum in females.					
	_		The seminal vesicles. The				
	•	•	The posterior perineum. The				
	scrotum. The testic	eles. The epididymis. Th	e spermatic cord. The				
	anterior perineum.						
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	oriented anatomy, Sixth Edition, ISBN 978-1-60547-652-0,						
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	A. Wayne Vogl; Adam W. M. Mitchell, ISBN 9780323393041,						
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	Williams & Wilkins, 1995, ISBN 0-683-06128-3						
	4. Mc Minn R.M.H Last's Anatomy Regional and Applied, 8-th						
		Churchill Livingstone.					
		_	Embryology, 6-th Edition;				
	Williams & W						
	6. Schumacher G-H, Topographic Anatomy, Veb Georg Thieme						
	Leipzig, 1985						
			, Treadgold Sylvia, Basic				
			The English Language book				
	•	tman, 1984, ISBN 0-272					
			ray's Anatomy 38th Edition,				
-		ngstone, 1995, ISBN 0-					
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	50%	40%	10%				
final grade:							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Facult	Faculty		Dental Medicine						
Domain of study			Health	Health					
Acade	mic de	gree		Dental	Medicine	e in Engl	lish		
Level	of cour	se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ine		
Depar	tment			3 Mole	cular scie	ences			
Discip	line			Medica	al Biocher	mistry			
Cours	title			BIOCHEMISTRY					
Respo	nsible i	for lectu	re	Lecturer Dr. Nistor Tiberiu					
Respo	nsible	for pract	tical	Vacancy 25 Assistant					
activit	activity								
The fo	rmativ	e catego	ry of	DF					
the di	the discipline								
Compulsory discipline		Compulsory							
X 7			hours/week	ho	urs/semes	ter		G 11.	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	1,5	14	21	15	50	2	Е

Pre-conditions (Preliminary conditions)	-
	Amphiteatre
activities	Laboratory

Professional competences	Basic knowledge necessary for the understanding of the biochemical principles important in dental medicine: aminoacids, proteins, enzymes, water and fat soluble vitamins and their coenzymes, nucleic acids.
Transversal competences	 Correlation of the theoretical knowledge with the practical activity. Interdisciplinary correlations.
General objectives	The accumulation of basic knowledge necessary for the understanding of the structure of the macromolecular compounds and biochemical processes in the living organisms
Specific objectives	 The structure and function of amino acids and proteins important in the human body. Enzymes as catalysts of metabolic processes in living organisms and their medical implications. Vitamins and coenzymes: structure, role and deficiency. Nucleic acids: composition, types, role Transmission and expression of genetic information.

LECTURES

Teaching	Oral presentation, Interactive conversation, Power-Point							
methods	presentation							
Content	1. Amino acids: structure, importance							
	2. Structure of proteins: primary, secondary, tertiary and quaternary							
	structure							
	3. Types of proteins: myoglobin, hemoglobin							
	4. Types of proteins: immunoglobulins, collagen							
	5. Enzymes: classification, structure, specificity							
	6. Enzymes: enzyme kinetics, types of enzyme inhibition							
	7. Enzymes: regulation of enzyme activity, isoenzymes							
	8. Vitamins and coenzymes - water soluble vitamins: B1, B2, Niacin,							
	Biotin							
	9. Vitamins and coenzymes - water soluble vitamins: Folic acid,							
	Pantothenic acid, B6, B12, Vitamin C							
	10. Vitamins and coenzymes - fat soluble vitamins: A, D, K, E							
	11. Nucleic acids: composition, structure of DNA and RNA							
	12. DNA Replication							
	13. DNA Transcription							
	14. RNA Translation							
	PRACTICAL ACTIVITIES							
Teaching	Interactive teaching, Power-Point presentation							
methods								
Practical	Determinatin of the concentration of solutions							
activity carried	Calculation of pH for acids, bases, buffer solutions							
out by students								
	Determination of serum and urinary parameters and interpretation of							
	the results							
Content	1. Technical norms of work safety in the biochemistry laboratory							
	2. Solutions: definition and different ways of expressing the							
	concentration of a solution							
	3. Acids, bases, buffer solutions: definition, examples, pH calculation,							
	medical importance							
	4. Acid-base titration: Titration of CH ₃ – COOH							
	Titration of the aminoacids and determination of pHi: Titration of							
	glycine							
	5. Principle of colorimetry. Determination of total serum proteins							
	(Gornall method). Medical importance							
	6. Principle of enzyme assays. Analysis of serum cholinesterase							
	activity. Medical importance							
	7. Gamma-glutamyl transferase (γ-GT) determination. Medical							
	importance							
	8. Glucose determination in blood. Glucose tolerance test. Medical							
	importance							
	9. Plasma lipids and lipoproteins. Determination of total lipids. Medical							
	importance							

	10.5	1 1 . 1 1.11	. 1 3 6 12 12				
			rides. Medical importance				
	11. Determination of bilirubin. Medical importance						
	12. Normal components in urine. Medical importance						
	13. Pathological comp	onents in urine. Medica	al importance				
	14. Practical exam						
Bibliography	1. Kaplan LA, Pesc	e AJ. Clinical chemis	stry: theory, analysis and				
	correlation. St. Louis	: The C. V. Mosby Con	npany; 1984				
	2. Bishop ML, Dub	en-Engelkirk JL, Fody	EP. Clinical chemistry:				
	principles, procedur	es, correlations. 2nd	ed. Philadelphia: J.B.				
	Lippincott Company;		•				
	3. Pamela C. Chan	npe, Richard A. Harv	ey, Denise R. Ferrier –				
		ition, Lippincott's Illust					
	4. Thomas M. Devlin – Textbook of Biochemistry with Clinical						
	Correlations, sixth ed		•				
	· · ·	*	For Dentistry Students. Ed.				
	Casa Cartii de Stiinta	•	,				
	6. Nistor Tiberiu. Biochemistry. Practical Labs in Dental Medicine.						
	Cluj-Napoca: Editura Casa Cartii de Stiinta; 2010						
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	70% 20% 10%						
final grade:	3,70	_370	== 7,0				

	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgi	raduate	studies		Cluj-Napoca					
Facult	ty			Dental	Medicine	•			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Qualit	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Mole	cular scie	ences			
Discip	line			Medical Biochemistry					
Cours	title			ORAL CAVITY BIOCHEMISTRY					
Responsible for lecture			Lectur	Lecturer Dr. Nistor Tiberiu					
Responsible for practical			Vacano	Vacancy 19 Assistant					
activit	t y								
The fo	ormativ	ve catego	ry of	DS					
the di	scipline	2							
Compulsory discipline			Compulsory						
		hours/	/week	ho	urs/semes				Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	1,5	14	21	15	50	2	Е

Pre-conditions (Preliminary conditions)	-
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Requisites for lectures and practical	Amphitheater
activities	Laboratory

Professional competences	 Basic knowledge necessary for the understanding of the biochemical mechanisms and diseases important for dental medicine: major metabolic pathways of carbohydrates, lipids and amino acids, biochemistry of the saliva, teeth, periodontium, dental plaque, dental caries, periodontal disease. Interpretation of the most sensitive biochemical parameters present in saliva and gingival fluid, which may be correlated with diseases of the oral cavity and with systemic diseases.
Transversal competences	 Correlation of the theoretical knowledge with the practical activity. Interdisciplinary correlations.
General objectives	The accumulation of basic knowledge of biochemical modifications in the oral cavity as a component of the whole organism.
Specific objectives	 Important metabolic pathways and deficiency of carbohydrates metabolism Important metabolic pathways and deficiency of lipids metabolism. Important metabolic pathways and deficiency of amino acids metabolism. Saliva: composition, properties and roles. Biochemistry of the teeth. Bacteria and dental plaque. Biochemical aspects of dental caries. Biochemistry of the periodontal disease.

	LECTURES						
Teaching methods	Oral presentation, Interactive conversation, Power-Point presentation						
Content	1. Carbohydrates metabolism and the oral cavity: Structure and importance of carbohydrates, Glycolysis, Gluconeogenesis, Tricarboxylic acid cycle						
	2. Carbohydrates metabolism and the oral cavity: Pentose phosphate pathway, Glucuronic acid pathway, Glycogen metabolism3. Lipids metabolism and the oral cavity: Structure and importance of						
	lipids, Metabolism of fatty acids, Synthesis of triglycerides 4. Lipids metabolism and the oral cavity: Metabolism of ketone bodies, Meatabolism of cholesterol, Bile acids, Steroid hormones						
	 5. Amino acids metabolism and the oral cavity: General transformations of the amino acids, Urea cycle 6. Amino acids metabolism and the oral cavity: Metabolism of phenylalanine and tyrosine, Metabolism of creatine and creatinine, 						

	Metabolism of heme						
	7. Oral cavity – a complex ecosystem						
	8. Biochemistry of the saliva: composition, properties and role						
	9. Biochemistry of the teeth: general aspects and chemical composition						
	10. Biochemistry of the periodontium: major chemical constituents and						
	biochemical processes at the periodontium level						
	11. Biochemistry of the dental plaque: dental pellicle, definition and						
	types of dental plaque, structure and composition of dental plaque,						
	metabolism of dental plaque						
	12. Biochemistry of the dental caries: description of the caries						
	processes, etiopathogenesis of dental caries, resistance to caries						
	13. Biochemistry of the periodontal disease: types, etiology and						
	evolution of the periodontal disease						
	14. Oral manifestations of systemic diseases						
	PRACTICAL ACTIVITIES						
Teaching	Interactive teaching, Power-Point presentation						
methods							
Practical	Determination of specific salivary parameters and interpretation of the						
activity carried	results						
out by students							
Content	1. Technical norms of work safety in the biochemistry laboratory						
	2. Biochemistry of saliva						
	3. The role of saliva in maintaining a constant pH						
	4. Determination of salivary calcium. Medical importance						
	5. Determination of salivary inorganic phosphate. Medical importance						
	6. Salivary urea determination. Medical importance						
	7. Salivary uric acid determination. Medical importance						
	8. Salivary amylase determination. Medical importance						
	9. Determination of salivary phosphatases activity determination.						
	Medical importance						
	10. Salivary transaminases activity (GOT and GPT) determination.						
	Medical importance						
	11. Determination of salivary glucose. Correlations between diabetes						
	mellitus and periodontal disease						
	12. Salivary proteins determination. Medical importance						
	13. Salivary pathological compounds in systemic diseases						
	14. Practical exam						
Bibliography	1. Kaplan LA, Pesce AJ. Clinical chemistry: theory, analysis and						
	correlation. St. Louis: The C. V. Mosby Company; 1984						
	2. Bishop ML, Duben-Engelkirk JL, Fody EP. Clinical chemistry:						
	principles, procedures, correlations. 2nd ed. Philadelphia: J.B.						
	Lippincott Company; 1992						
	3. Pamela C. Champe, Richard A. Harvey, Denise R. Ferrier –						
	Biochemistry, 3rd edition, Lippincott's Illustrated Reviews, 2005						
	4. Thomas M. Devlin – Textbook of Biochemistry with Clinical						

	Correlations, sixth edition, 2006 5. Nistor Tiberiu – Basics in Biochemistry For Dentistry Students. Ed. Casa Cartii de Stiinta, Cluj-Napoca, 2010 6. Nistor Tiberiu. Biochemistry. Practical Labs in Dental Medicine.				
Evaluation:	Cluj-Napoca: Editura Casa Cartii de Stiinta; 2010 Written exam Practical exam Activity during the semester:				
Percent of the final grade:	70%	20%	10%		

Institu	ution fo	r gradu	ate and	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgi	raduate	studies		Cluj-Napoca					
Facul	ty			Dental	Medicine	•			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engl	lish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ine		
Depar	tment			12 Med	dical educ	ation			
Discip	line			Medica	al skills –	Human	sciences		
Cours	title			MEDI	CAL CO	MMUN	ICATIO	N	
Respo	nsible	for lectu	re	Associate Professor Dr. Codruţa Alina Popescu					
			CF13						
Respo	nsible	for pract	tical	Assist. Drd. Ana Maria Tegzeşiu					
activit	t y			Vacant CF5					
The fo	ormativ	e catego	ry of	DC					
the di	the discipline								
Compulsory discipline			Compulsory						
* 7			s/week	ho	urs/semes	ster		~	Type of
Year So	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment

Pre-conditions	Abilities to speak and write in English				
(Preliminary					
conditions)					
Requisites for	Room with video projection system				
lectures and	Course: power-point presentation, offered to students				
practical activities	Attendance: the provisions of the didactic activity regulations of				
	the Faculty will be observed exactly; Unjustified delay will not be				
	tolerated for students in the course as it proves to be disruptive to				
	the educational process.				
	Respecting the epidemiological safety measures				
	Students will not attend classes with their mobile phones open.				
	Also, telephone conversations during the course will not be				
	tolerated, nor will students leave the classroom in order to take				

personal phone calls;

Consumption of food and beverages during the course / practical work is not allowed

Regarding the attendance at the course and at the internships, the provisions of the didactic activity regulation of the Faculty will be observed exactly;

Respecting the epidemiological safety measures

Students will complete in the practical skills booklet edited by the faculty the required information.

Each student must complete his portfolio and the book of practical activities individually in accordance with the list of mandatory clinical cases;

Students' attire must be decent and respect the environment of activities (classrooms and practical work).

Course: power-point presentation, offered to students; dialogue - known / new notions, basis of understanding; notions / pathologies connections:

Attendance: the provisions of the didactic activity regulations of the Faculty will be observed exactly; Unjustified delay will not be tolerated for students in the course as it proves to be disruptive to the educational process.

Students will not attend classes with their mobile phones open. Also, telephone conversations during the course will not be tolerated, nor will students leave the classroom in order to take personal phone calls;

Consumption of food and beverages during the course / practical work is not allowed.

Professional competences

- To know and reproduce the basic theoretical notions presented in the course
- To know the communication tools used to identify the patient's symptoms
- To be able to establish a relationship with the patient
- To gather information from the patient that includes his perspective on the disease
- Be able to start the consultation, summarize and conclude the consultation
- To understand that communication strategies must be adapted to the patient's age (child, adult, elderly person) or to the impairments that the patient presents (hearing, visual, intellectual disability).
- To be able to discuss sensitive or stigmatizing topics for the patient (alcohol, drugs, sexual behavior).
- To be able to carry out consultations in emotionally charged situations (angry patient, bad news communication).
- To identify specific signs of anxiety related to dental

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	procedures To all a second desired and a second desired desir
	To choose the appropriate way of communication during dental procedures
Transversal	To apply critical thinking skills in new and complex
competences	situations.
P	To know and reproduce the basic notions presented in the
	course; known / new notions, basis of understanding; notions
	/ pathologies connections;
	• Work in a team.
	To show interest for professional training, consulting
	bibliographic sources;
	To demonstrate concern for professional development, by
	training critical thinking skills;
	To demonstrate the ability to use digital media for medical
	information and communication;
	 Show interest in engaging in research activities, such as the
	development of scientific articles
	To have the ability to communicate effectively with the
	patient and medical staff;
	To prove ability and concern for collegial professional
	communication; to show concern for teamwork, in order to
G 1	fulfill a common project.
General	• At the end of the course, students will acquire the necessary
objectives	skills for effective communication with patients and their
	relatives and will be able to put into practice the theoretical and applied notions from the materials presented in the
	course.
Specific	At the end of the course the student is able to:
objectives	 Describe the elements of communication
	Describes how non-verbal communication is used in medical
	and dental practice
	Define and demonstrate empathy
	Identify anxiety related to dental procedures
	Use open and closed questions correctly in your medical or
	dental consultation
	Gather relevant information during the medical or dental
	consultation
	 Provides information at the patient's level of understanding
	Understands unproductive models of communication in
	medical practice (use of medical jargon, infantilization in
	communication with the elderly).
	Recognize the emotional impact of wearing a prosthesis
	 Describe and practice the skills needed to handle difficult
	conversations

	LECTURES				
Teaching	Systematic lecture / Oral presentations with PowerPoint support				
methods	exemplification by short presentations of clinical cases,				
	questioning, problem solving				
Content	1. The communication process				
	2. Nonverbal communication				
	3. Verbal communication				
	4. Clinical interview (medical consultation)				
	5. Dental interview (dental consultation)				
	6. Communication during dental procedures				
	7. Management of dentally anxious patient				
	8. General principles for complaint management and problem				
	resolutions, angry patient				
	9. Bad news				
	10. Communication with children				
	11. Communication with elderly patients				
	12. Communication with people with disabilities				
	13. Stigma management				
	14. Public communication / Advertising and promotion / Online				
	reputation				
	PRACTICAL ACTIVITIES				
Teaching	Systematic presentation, conversation, problem solving,				
methods	demonstration, case presentation, exercises, role-playing games				
Practical	Theoretical individual study for the preparation of clinical cases,				
activity carried	making oral presentations, Role-playing games during practical work,				
out by students	Analysis of video materials				
Content	1. Presentation of students				
	2. Use of simple words				
	3. Communicating the bad news - role play				
	4. Communicating the bad news video part 1				
	5. Communicating the bad news video part 2				
	6. Angry patients -role play				
	7. Patient chart				
	8. Clinical interview: Role play cases medicine				
	9. Clinical interview: Role play cases medicine				
	10. Clinical interview: Role play cases dentistry				
	11. Anxiety related to dental procedures				
	12. Public communication				
	13. Public communication				
	14. Receiving and providing feedback				
Bibliography	1. Popescu C A, Armean SM, Curs de comunicare medicală pentru				
~ 8- ~P J	studenții de la medicină generală , Cluj-Napoca : Editura Medicală				
	Universitară "Iuliu Hațieganu", 2019				
	2. Young, Lance Brendan; O'Toole, Cynthia Rozek; Wolf, Bianca.				
	Communication Skills for Dental Health Care Providers. Quintessence				

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		R, Noble, L. Clinical c	ommunication skills in				
	medicine, Elsevier, 2019.						
	4. Fields James Pre-Clinical Dental Skills at glance Willey Blackwell						
	2016						
	5. Travis M. Nelson	, Jessica R. Webb Dental	Care for Children with				
	Special Needs A Clin	ical Guide, Springer, 201	9				
	6. G.G.Kent, A.S.	Blinkhorn, The Psych	ology of Dental Care,				
	Butterworth-Heinema	ann, 1991					
	7. Cashman, S; Greene, J, Hearfield, H. (2011-11-20). History Taking:						
	Key Role Play for OSCEs, Doctors Academy Publications. Kindle						
	Edition.						
	8. L.G. Öst, E. Skaret Cognitive behavioural therapy for dental phobia						
	and anxiety, Wiley Blackwell Publications, John Wiley & Sons, 2013						
Evaluation:	Written exam						
	semester:						
Percent of the	500/	250/	250/				
final grade:	50%	25%	25%				

Institu	titution for graduate and		Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	lish		
Level	of cour	se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ine		
Depar	tment			2 Func	tional scie	ences			
Discip	line			Physio	logy				
Cours	title			PHYSIOLOGY					
Responsible for lecture			Associate Professor Dr. Teodora Mocan						
Responsible for practical		Associate Professor Dr. Teodora Mocan							
activity		Lecture	er Dr. Al	exandra	Sevastre-	Berghian,	Assist. Dr		
		Moga A	Adrian						
The fo	ormativ	e catego	ry of	DF					
the di	the discipline								
Compulsory discipline		Compulsory							
X 7	hours/week		ho	urs/semes	ter			Type of	
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	2	2	28	28	69	125	5	Е

Pre-conditions (Preliminary	-
conditions)	
Requisites for lectures and	In amphitheatre, with video projection
practical activities	The students are not allowed to enter the amphitheatre

with turned on mobile phones. The discussions among
the students that can disturb the educational process are
not allowed. The students are not allowed to leave the
room to talk at the phone.
Eating, drinking of any king of food and fluids are
forbidden
The students' delays are not tolerated because they
disturb the educational process
In laboratory rooms with, the specific material
The students have to wear white coats
An individual portfolio must be completed by each
student
must be noted in the students notebook, that will be
dents g

Professional	A hility in adaquete utilization of the medical terminals as
Professional competences	 Ability in adequate utilization of the medical terminology Acquire of the practical experience necessary for utilization of the laboratory instruments, to investigate some fundamental physiological mechanisms, and to test the studied clinical parameters
	Ability to interpret the laboratory tests
	Ability to correctly interpret the results of scientific studies
	Ability to efficiently use the medical sources
Transversal	Ability to use the studied notions in new conditions
competences	Ability to make correlations among the studied notions at different disciplines
	Ability to efficiently communicate in a team
	• Concern for professional mastery through training of the critical thinking abilities
	Ability to use digital resources for medical data
	Acquire the interest for the own professional development
General	Clarification and understanding of the difficult and complex
objectives	biological mechanisms
	• Exploring the various systems (excitable tissue, blood,
	cardiovascular system, respiration, excretion and
	digestion)
	 Developing the spirit of observation and of the critical
	thinking, skills which are essential for the future doctors
Specific objectives	• Learning of the medical terminology, acquisition of the needed knowledge for the integration of functions at the molecular,
	cellular, tissue and systemic level, in order to understand the functioning of the different organs, systems and the interactions between them.
	• Use of the equipment and of the laboratory instruments in order to learn the physiological mechanisms.

• Interpret of the bibliographical documentation.

	LECTURES					
Teaching	Lecture, Systematic Speech, Conversation, Problem solving					
methods						
Content	1. Water and fluid compartments of the body. Ion distribution in the					
	body fluids. Homeostasis. Transport across the plasma membrane:					
	passive, active, vesicular					
	2. The physiology of excitable tissues. The axoplasmic transport. The					
	physiology of the neuron: resting membrane potential, action potential,					
	conductivity. Synapse. Structure. Functioning. Postsynaptic potentials.					
	The characteristics of synaptic transmission					
	3. The neuromuscular junction. The physiology of skeletal muscle: the					
	functional structure of the striated muscular fiber; the excitation-					
	contraction coupling; muscle relaxation. Muscle fatigue.					
	4. Smooth muscle physiology: structure (multiunit, single-unit) the					
	excitation-contraction coupling; the contraction and relaxation					
	mechanism. The reflex activity. The vegetative reflex arc. The					
	autonomic nervous system. 5. Pleads compositions homotocrits blood valumes machinisms of blood.					
	5. Blood: composition; hematocrit; blood volume; mechanisms of blood volume regulation; acido- base balance of the blood. Blood properties.					
	7					
Plasma: composition; plasma proteins. 6. Erythrocytes: structure, number, variations. Hemoglobin:						
	role,					
	combinations. Iron metabolism. Erythropoiesis.					
	7. The properties of erythrocytes. Red blood cell antigens. Blood typing					
	ABO and Rh. Transfusions					
	8. Leukocytes: structure, number, variations; leukocyte formula. The					
	properties of granulocytes. The formation of leukocytes. Immunity. The					
	innate and adaptive immunity. Immunoglobulins					
	9. Platelets: structure, number, variations. Hemostasis. Blood clotting.					
	Factors that inhibit clotting. Dissolution of clots.					
	10. The properties of the cardiac muscle. The electrical activity of the					
	heart. The cardiac output. Nervous and humoral regulation of cardiac					
	activity. The baroreceptor reflex.					
	11. Blood pressure. The physiology of the microcirculation. Capillary					
	fluid exchange. The regulation of microcirculation.					
	12. The physiology of the respiratory system: Lung ventilation; Gas					
	exchange in the lungs; Oxygen and carbon dioxide transport; the					
	regulation of respiration. The physiology of excretion: structure and					
	function of the kidneys; Glomerular filtration. Tubular reabsorption and					
	secretion. Micturition.					
	13. The physiology of excretion: structure and function of the kidneys;					
	Glomerular filtration. Tubular reabsorption and secretion. Micturition.					
	14. Introduction into the physiology of the digestive tract. Gastric					
	secretion, pancreatic secretion, biliary secretion and intestinal secretion.					

	The regulation of gasts Intestinal absorption.	ric secretion. Motility o	f the gastrointestinal tract.			
		CAL ACTIVITIES				
Teaching	Interactive Systematic	c Speech, Problem Solv	ving, Demo, Individual			
methods	Practical Activity	1 /	,			
Practical		tory Tests, Data Interpre	etation, Problem Solving			
activity carried						
out by students						
Content	1. Hematocrit or packe	ed cell volume. Osmosis	s. The influence of the			
	osmotic pressure on th	ne erythrocyte volume. I	RBC osmotic resistance.			
	2. Hemoglobin's com	binations. Identification	n of hemoglobin. Total			
	hemoglobin content in the blood. The dosage of the bicarbonate.					
	3. Red blood cells cou	nt. Reticulocytes count.	Erythrocytes parameters			
	4. Erythrocyte sedime:	ntation rate. Blood and	plasma density.			
	Electrophoresis of plas	sma proteins.				
	5. Blood typing: ABO	, Rh. Transfusions.				
	6. White blood cell co	unt. White blood cell di	fferential count.			
	7. Platelet count. Blee	ding time. Rumple-Leed	ds compression test.			
		Quick time. Howell time				
	9. Neuron physiology	(simulations): excitabil	ity, conductibility,			
	threshold, summation.					
	10. Muscle physiology	y (simulations): role of t	the motor end plaque in			
	the muscle fatigue. Muscle contractions.					
	11. The electrocardiog	grm				
	12. Blood pressure mo	onitoring				
	13. Urine analysis.					
		volumes and capacities				
Bibliography		·	and physiology, Pearson,			
		los A, Silbernagl S. C	Color atlas of physiology,			
	Thieme, 2003. 2. Widmaier EP, Raff H, Strang KT, Vander's Human					
		_				
	physiology The mechanisms of body function, McGraw-Hill, 2014.					
		an physiology, McGraw	-Hill, 2011.			
			ciples of anatomy and			
		Wiley&Sons Inc, 2009				
		•	physiology: An integrated			
	approach, Pearson, 2013. Guyton AC, Hall JE, Textbook of					
	medical physiolo	gy, Elsevier, 2006.				
	6. Escot-Stump	p S, Mahan LK, Kra	use's Food nutrition and			
	therapy, Elsevier,					
			atory tests. Sibiu, Techno			
		SBN (10) 973-7865-24	I-3. ISBN (13) 978-973-			
T	7865-24-3		A 40 04 3 0 05			
Evaluation:	Written exam	Practical exam	Activity during the			
			semester:			

Percent of the	80%	10%	10%
final grade:			

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	rse		I and I	I- License	and ma	sters		
Qualif	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			1 Morp	hologic s	ciences			
Discip	line			Histolo	gy				
Cours	title			HYSTOLOGY					
Responsible for lecture			re	Associ	ate Profe	ssor Bo	șca Adina	a Bianca I	OMD, PhD
Responsible for practical			Associ	ate Profes	ssor Boş	ca Adina	Bianca DN	MD, PhD	
activity			Lecture	er Consta	ntin Anr	ie Marie I	MD, PhD		
			Assista	Assistant Coneac Andrei MD, PhD					
The fo	ormativ	ve catego	ry of	DF					
the discipline									
Compulsory discipline		Compulsory							
X 7	G	hours/week		ho	urs/semes	rs/semester		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	2	14	28	33	75	3	Е

Pre-conditions	-				
(Preliminary conditions)					
Requisites for lectures	Attendance to lectures is mandatory 70%, equivalent to 10				
and practical activities	attendances during the semester.				
	Students are required to turn off their mobile phones and				
	other electronic devices during the lectures, the practical				
	works/labs and the exams.				
	The access with food or beverages in the classroom is				
	forbidden.				
	Damaging the furniture, the microscopes or breaking the				
	histological slides bring the penalty consisting in the payment				
	of damages.				
	Smoking inside the building is forbidden.				
	Attendance to practical works/laboratories is compulsory				
	100%.				
	Absences due to medical reasons will be excused based upon				
	the certificate signed by the Dean no later than 7 days.				
	Unexcused absences must be paid at the UMF cashier based				
	upon the payment order issued by the Histology Department				
	no later than 7 days.				

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Both excused and unexcused absences must be recovered.
Students must negotiate with the professors the make-up of
the missed labs.
Recovery of absences can be done during the semester (in
labs when revision is planned) or in extra labs (organized for
this purpose at the end of the semester).
Students who have unrecovered absences will not be allowed
to sit the final exams.
The maximum number of absences (both excused and
unexcused but paid, and recovered), is no more than 3 per
semester.
Absences above 3 (20% of 14 - the total practical works/labs
during the semester) cannot be recovered.
Therefore, students who have more than 3 absences will not
be allowed to sit the final exam.
Students will wear medical white laboratory coats, will
examine the histological slides under the light microscope
and will complete their portfolios.

Professional	Ability to properly use the special histology terminology
competences	Ability to correctly use the light microscope
	Ability to encompass, to render accurate histological diagnosis based on tissue examination
	A fundamental knowledge of the histological structure of the tissues and organs in the human body
	Ability to analyze and interpret the microscopic structure of the human tissues and organs
	Ability to systematically identify and range the criteria for the histological diagnoses.
	Ability to render histological differential diagnoses for the tissues and organs.
Transversal	To demonstrate the interest for the professional performance by
competences	the acquirement of a critical reasoning.
	To prove the ability to use the digital devices for medical research
	To achieve communicating abilities
General	• Students will be able to use their theoretical knowledge in
objectives	Histology in a clinical context, in order to acquire a proper integrated medical reasoning.
Specific	Students will be able to:
objectives	Use a light microscope
	Analyze and interpret a histological section under the light microscope
	Identify and differentiate the histological staining procedures
	Render accurate histological diagnoses for the human tissues and
	organs

Render accurate differential diag	
Integrate the histological information clinical subjects.	

	LECTURES					
Teaching	Conferences, systematic and interactive presentations, Power					
methods	Point presentations, demonstrations of virtual histology, problem-					
	based learning					
Content	1. EPITHELIAL TISSUES. Introduction. Overview. Classification.					
	Histogenesis.					
	2. EPITHELIAL TISSUES. Covering epithelia: simple and stratified					
	epithelia. Structure in LM and EM.					
	3. EPITHELIAL TISSUES - Glandular epithelia: exocrine and					
	endocrine glands: Structure in LM and EM.					
	4. CONNECTIVE TISSUES Part one: General considerations. Cells:					
	fixed and transient cells. Structure in LM and EM.					
	5. CONNECTIVE TISSUES Part two. Ground Substance. Fibers.					
	Interstitial fluid. Structure in LM and EM.					
	6. CONNECTIVE TISSUES Part three. Classification. Embryonic					
	connective tissues. Proper connective tissues: loose, dense irregular,					
	dense regular, elastic. Structure in LM and EM.					
	7. CONNECTIVE TISSUES Part four. Specialized connective tissues:					
	reticular tissue, adipose tissues: white and brown. Structure in LM and					
	EM.					
	8. CONNECTIVE TISSUES Part five. Specialized connective tissues:					
	cartilage: cells, cartilage matrix, types of cartilage: hyaline, elastic,					
	fibrocartilage. Temporo-mandibular joint. Structure in LM and EM.					
	9. CONNECTIVE TISSUES Part six. Specialized connective tissues:					
	bone tissue: general characteristics, cells, bone matrix. Structure in LM					
	and EM. 10. CONNECTIVE TISSUES Part seven. Types of adult bone: spongy					
	bone, compact bone, ossification. Structure in LM and EM.					
	11. MUSCLE TISSUES. Part one. Overview. Classification. Skeletal					
	muscle. Structure in LM and EM.					
	12. MUSCLE TISSUES. Part two. Smooth muscle. Structure in LM					
	and EM.					
	13. NERVOUS TISSUE. Part one. Neurons and glial cells. Structure					
	in LM and EM.					
	14. NERVOUS TISSUE. Part two. Nerve fibers. Nerve as an organ.					
	Structure in LM and EM.					
	PRACTICAL ACTIVITIES					
Teaching	Systematic and interactive presentations, demonstrations, exercises,					
methods	case reports, demonstrations of virtual histology.					
Practical	Examination of the histological preparations, interpretation of					

activity carried	histological images, establishing the histological diagnosis, discussing					
out by students	the aspects of differential diagnosis, acquiring the knowledge and the					
	practical histological skills.					
Content	Histological section.					
	2. Epithelial tissues I . Covering epithelial tissues. Simple epithelia:					
	simple squamous (mesothelium, endothelium), cuboidal and columna					
	H&E stain and special staining					
	3. Epithelial tissues II. Covering epithelial tissues. Stratified epithelia:					
	keratinized/non-keratinized stratified squamous, pseudostratified					
	ciliated columnar, transitional epithelium. H&E stain and special					
	staining					
	4. Epithelial tissues III. Glandular epithelia Exocrine glands: simple					
	alveolar gland, compound tubulo-alveolar gland: serous acinus, mucous					
	acinus, mixed acinus. Endocrine glands: cord type gland – the adrenal					
	gland; follicle type gland – the thyroid gland. H&E stain and special					
	staining					
	5. Connective tissues I : mucous connective tissue, loose connective					
	tissue dense irregular, dense regular collagenous - tendon. H&E stain					
	and special staining					
	6. Connective tissues II: Aponeurosis, fibrolamellar tissue. H&E stain					
	and special staining. Revision.					
	7. Connective tissues III : Dense regular elastic CT – media of the					
	aorta, nuchal ligament. Special staining.					
	8. Connective tissues IV: Specialized connective tissues: reticular CT					
	- medulla of the lymph node, adipose: white and brown adipose tissue					
	adipose. H&E stain and special staining. 9. Connective tissues V : Specialized connective tissues: cartilage:					
	hyaline, elastic, fibrocartilage. H&E stain and special staining.					
	10. Connective tissues VI: Specialized connective tissues: compact					
	bone, spongy bone, endochondral ossification. H&E stain and special staining.					
	11. Muscle tissues I : Skeletal striated muscle tissue, muscle as an					
	organ. H&E stain and special staining. 12. Muscle tissues II : Smooth muscle: muscularis externa of the small					
	intestine, pili arrector muscle, media of blood vessels. H&E stain and					
	special staining.					
	13. Nervous tissue : neurofibrils, Nissl bodies, myelinated nerve fibers.					
	Nerve as an organ. H&E stain and special staining.					
	14. Practical exam					
Bibliography	Mandatory					
Dibliography	1. General Histology : Tissues . Maria Crisan, Carmen Mihaela					
	Mihu, Carmen Melincovici, Bianca Bosca, Anne Marie					
	Constantin, Andrei Coneac, Ioana Moldovan. Editura					
	Medicala Universitara "Iuliu Hatieganu", Cluj-Napoca, 2013					
	ISBN 978-973-693-554-1					
	2. General Histology. Evaluation exercises. Editors: Constantin					
	2. Constant Instances, Evaluation exercises, Editors, Constantin					

		Anne-Marie.	Bosca Adina Bianca, At	ıthors: Constantin Anne-	
			ı Adina Bianca, Mihu Ca		
		, ,	iu, Şovrea Alina, Mărgir	, ,	
		, ,		Moldovan Ioana, Coneac	
			ributors: Lavinia Mocan		
			iversitaă "Iuliu Haţiegan	,	
	Option		1, 0151000 10110 110,108011		
	-		Junqueira's Basic Histo	ology. Text and Atlas.	
			Lange Medical Books; M		
			vivision; 2010.		
	4.		Histology a Text and Atla	as, 7th edition, Lipincott	
			Wilkins. 2016.	, r	
	5.	5. Kumar G.S. Orban's Oral Histology and Embryology, 13 th			
		Edition, 2011			
	6.	Hand A.R., Frank M.E. Fundamentals of Oral Histology and			
			Wiley Blackwell, 2014		
	7.		KB, HollandGR, Moxhan	n BJ. Oral Anatomy,	
		Histology and	d Embryology 5th Editio	n Elsevier, 2017	
	8.	Nanci A (editor). Ten Cate's Oral Histology Development,			
		Structure, and Function.9th Edition. Elsevier, 2017. eBook			
Evaluation:	Wri	tten exam	Practical exam	Activity during the	
		semester:			
Percent of the		60%	30%	10%	
final grade:					

	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine)			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			12 Med	dical educ	ation			
Discip	line			Medical informatics and biostatistics					
Cours	title			MEDICAL INFORMATICS AND BIOSTATISTICS					
Respo	Responsible for lecture			Assoc. Prof. Dr. Cosmina Ioana Bondor					
Responsible for practical			Assoc.	Prof. Dr.	Cosmin	a Ioana B	Sondor		
activit	activity			Lecturer. Dr. Tudor Călinici					
The fo	ormativ	e catego	ry of	DC					
the di	the discipline								
Comp	Compulsory discipline		Compulsory						
	_	hours/week		ho	urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	2	14	28	33	75	3	Е

Pre-conditions	Using PC: internet browsing and editing text-based
(Preliminary conditions)	documents
Requisites for lectures	Presence: the provisions of the regulations for the teaching
and practical activities	activity of the Faculty will be strictly observed;
	Students will not attend classes / practical work with mobile
	phones open. Also, telephone calls will not be tolerated
	during the course or practical activities, nor students leaving
	the classroom to retrieve personal phone calls;
	It is prohibited consumption of foods and beverages during
	the course / practical activities
	No delay for the classroom will be tolerated during the course
	and practical activities as it proves disruptive to the
	educational process
	Regarding attendance at internships, the provisions of the
	Faculty's teaching activity regulations will be strictly
	observed;
	Each student must complete their individual portfolio in
	accordance with the list of compulsory practical work

Professional competences	 To know the most common applications of medical informatics and highlight their current impact on health care and medical research. To record medical data using computer To perform descriptive statistics on medical data using computers To perform inference statistics on medical data using computers
Transversal competences	 To use computers for communication with patients, colleagues and administrative staff. To use computers for making specific medical presentations: presentation of clinical cases, presenting research results, etc. To use computers for research and continuing medical education.
General objectives	• The aim of the course is to help students to gain basic information about information technologies with applications in dentistry and medicine (birotics, databases, working in networks, storing data, searching information) as well as basic methods of statistics. In addition, students will learn about current technologies and methods in computer science and biostatistics and their impacts on health care practice and research.
Specific objectives	 At the end of the course, students will be able to: Search medical information in databases such as PubMed, Cohrane etc. Do paper sheets specific medical field by using the Microsoft Word

• To identify the correct type of variables involved in the process of collecting health data
Collecting medical data using Microsoft Excel application
• Identify appropriate descriptive measures to present medical data
based on the variables type, and present data using Microsoft
Excel and Epi Info
• Identify in a clinical scenario events and establish their correct theoretical probability
• To accurately estimate population parameters different from a sample
• Correctly identify the inferential statistical methods and apply them using Microsoft Excel and Epi Info
• To correctly interpret the results of statistical analyzes and apply them in clinical decisions
 To present results using Microsoft Office

	LECTURES					
Teaching	Academic and interactive conferences,					
methods	Exemplifications in the medical field of statistical methods					
	Demonstrations with statistical software / computer programs					
Content	1. Introduction to Medical Informatics. Objectives, Applications,					
	Requirements, Regulations. Applications of Medical Informatics					
	2. Introduction to statistics. Statistical population, Sample, Variable					
	Data representation methods (tables and graphs)					
	3. Descriptive statistics (measures). The calculation and interpretation					
	of descriptive statistics in the case of a qualitative variable					
	4. Descriptive statistics (measures). The calculation and interpretation					
	of descriptive statistics in the case of a quantitative variable					
	5. Probability and medical applications of probability theory. Random					
	experiment, Fundamental space of events, Definitions of probabilities, Conditional probabilities, Independence of two events, Association					
	indicators (relative risk and odds ratio), Diagnostic performance					
	indicators					
	6. Variables aléatoires. Les plus importantes distributions des					
	probabilités					
	7. Sampling methods; Sample distribution. Point estimate and confidence interval					
	8. Tests of statistical hypotheses. The steps of a statistical test.					
	Hypothesis tests on population means, and analysis of variance:					
	Student's t tests, Fisher test, ANOVA					
	9. Frequency comparison tests: Chi-square test, Fisher's exact test,					
	McNemar test					
	10. Correlations and regressions. Scatter plot. The sum of the products					
	deviation. Covariance. Correlation coefficients (Pearson, Spearman).					
	The coefficient of determination. Statistical tests for the significance of					

	the coefficients of the Pearson and Spearman correlations. Linear				
	regression analysis.				
	11. Knowledge management & Bibliographic databases (Internet -				
	What do we read? Where? Medical scientific journals, Pubmed).				
	12. How to communicate medical knowledge? (Make scientific				
	presentations). Security of medical data.				
	13. Databases (Google drive, Microsoft Access, Computer applications				
	in dentistry)				
	14. Synthesis.				
	PRACTICAL ACTIVITIES				
Teaching	Computer aided solving,				
methods	Problem solving,				
	Explanations in the practical workroom, dialogue, together with				
	individual assistance.				
Practical	Problem solving using software				
activity carried	Each student fills in a portfolio of practical work solved on the				
out by students	computer				
Content	1. Introduction. Protection during the practical activity in the laborator.				
	Rules. Good practices for using the computer network.				
	2. Collection of medical data. Using predefined functions in Excel and				
	formulas to define new variables				
	3. Charts in Excel. Presentation of medical data using graphics				
	4. Description of quantitative and qualitative ordinal data by descriptive				
	measures (calculation of descriptive statistics in Excel)				
	5. Realization of frequency tables / contingency tables using advanced				
	analysis tools				
	6. Medical applications of probability theory. Analysis of the				
	contingency table: calculation of medical association indicators,				
	calculation of diagnostic performance indicators				
	7. Statistical inference using the confidence interval				
	8. Carrying out hypothesis tests on population means, hypothesis tests				
	on population variances using advanced Excel analysis tools				
	9. Carrying out tests related to qualitative variables: the chi-square test.				
	Correlation and linear regression analysis using advanced Excel				
	analysis tools				
	10. Using the Medline via the Pubmed interface to search for medical				
	information				
	11. Creation of a medical database in Microsoft Access				
	Creation of online forms with GOOGLE FORMS				
	12. Individual project (with a theme concerning databases or small				
	statistical analysis based on the testing of certain medical objectives)				
	13. Summary of knowledge acquired during the semester. Revision for				
	the practical exam				
	14. Practical exam				
	- · · · · · · · · · · · · · · · · · · ·				

Bibliography	1. Winter A, Ha	aux R, Ammenwer	th E, Brigl B, Hellrung N, Jahn F.			
	Health Information System, Architectures and Strategies. 2nd ed.					
	London: Springer; 2011.					
	2. Kim JS, Dai	ley R. Biostatistics	s for oral healthcare. Ames, Iowa:			
	Blackwell Munk	ksgaard; 2008.				
	Course presenta	tions / practicals				
	1.Course presen	tations for students	of the dental medicine faculty (RO			
	/ EN / FR) [online] 2002-2021. Available from URL:					
	2. Practical work in Medical Informatics and Biostatistics - for					
	students of the Faculty of Dental Medicine (RO / EN / FR) [online]					
	2002-2020. Available from URL:					
Evaluation:	Written exam Practical exam Activity during the semester:					
Percent of the 70% 30% is quantified in the cale						
final grade:			of the mark for the written and			
imai graue.			practical exam			

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgraduate studies				Cluj-Napoca					
Faculty				Dental	Dental Medicine				
Domain of study				Health	Health				
Academic degree				Dental Medicine in English					
Level of course				I and II- License and masters					
Qualification			Doctor of Dental Medicine						
Department			12 Medical education						
Discipline			Medical skills – Human sciences						
Cours title				HISTORY OF DENTAL MEDICINE					
Responsible for lecture				Prof. I	Dr. Cristi	an Bârs	u		
Responsible for practical				-					
activity									
The formative category of				DR					
the discipline									
Compulsory discipline			Compulsory						
***	Sem	hours/week		hours/semester		ster		~	Type of
Year		C	LP/S	C	LP/S	SI	Total Credits	Assessment	
1	1	1	0	14	0	36	50	2	V

Pre-conditions	Basic knowledge of general history
(Preliminary conditions)	Correct understanding and proper oral and written
	expression in English
Requisites for lectures and	Students should not have cell phones open during the
practical activities	courses. Also, telephone calls will not be tolerated during
	the course, no leaving the classroom by students to
	retrieve personal phone calls

The consumption of food and beverages during the
lectures is not permitted
Students coming late to the course will not have the
possibility to attend the course, because it disturbs the
educational process.

Professional	• At the end of the courses, students will have the ability to use properly
competences	and in context the specialized terminology.
	 At the end of the courses, students will have the ability to explain and interpret the evolution of dentistry in an interdisciplinary approach with the other fundamental biomedical and specialized domains: anatomy, physiology, histology, pharmacology, surgery etc. At the end of the courses, students will be able to identify some adverse consequences derived from the application of erroneous or superficial solutions in the practice of medicine.
Transversal	• To use the medico-historical concepts in new contexts.
competences	• To capitalize their potential to the optimum and creative scientific activities.
	• To form the ability to identify some present problems from different fields of dentistry.
	• To demonstrate concerns to identify solutions and arguments in favor of the proposed opinions.
	• To justify the most adequate decisions in some particular situations.
	• To demonstrate ability to use digital means and historical documents for their information.
General	• To know the fundamental notions of dentistry's historical evolution
objectives	and their proper use
	• To know the fundamental notions about the history of anatomy,
	histology and pathology in order to achieve connections between them and the profile of dental medicine.
Specific	• The application into practice of theoretical principles from the history
objectives	of dentistry.
	To know the contributions of the Romanian founders of dentistry.
	• To solve some contemporary problems of medical ethics from the
	dental practice using examples of medical ethics from the past.

	LECTURES		
Teaching	ching Course, systematic presentation, conversation.		
methods	Oral presentation, associated with PowerPoint presentation		
Content	1. The educational objectives of the history of medicine. Links of		
	dentistry with sciences and arts		
	2. Romanian medicine – European medicine		
	3. Particularities of documentation in the history of dental medicine		
	4. Traditional medicine		
	5. Medicine in prehistoric times. First empirical attempts to treat dental		

	disease				
	6. Selected medical an	nd dental practices: Ancie	ent Egypt and		
	Mesopotamia				
	7. Dental practice in A	Ancient India and in Anci	ent China		
		stry in ancient Greece. G			
	Oral-maxillofacial sur	gery Techniques elabora	ted by Celsus		
		e. Medicine in Western E			
		lle Ages. Medieval denta			
		he Renaissance. The guil			
	_	surgery. Ambroise Paré	and his progress in		
	conservative and surgi				
	11. Dentistry in the 18th century. Pierre Fauchard and the training of				
	modern dentistry.				
		nce, Germany and Englar			
		dental prostheses and of	dental anesthesia in the		
	19th century				
	13. Advances in dentistry in the first half of the 20th century				
		n dentists who activated			
	Dimitrie Nedelcu, Gheorghe Bilaşcu and Dan Theodorescu 1. Cristian Barsu. History of Medicine between tradition and mode				
Bibliography		2	tween tradition and mode		
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	ntil the End of the	T	1 2015		
		Forgotten Books) Publ.,			
		ittor). A global history (of medicine, Oxford Univ		
	ress, Oxford, 2018.	lover I Vim A History	of Madiaina 2rd adition		
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	,	er. The Medical Book : I	From Witch Doctors to		
	Robot Surgeons, 250		From when Doctors to		
			g Co. New York 2017		
	in the History of Medicine, Sterling Publishing Co., New York, 2017. 6. Stephane J. Snow. Blessed Days of Anaesthesia: How anaesthetics ch				
		niversity Press, Oxford, 2			
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	90%	-	10%		
final grade:					
	L				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters

Qualification			Doctor of Dental Medicine						
Department				7 Surgery					
Discipline				Anesth	Anesthesia and Intensive Care Unit				
Cours title				FIRST AID					
Responsible for lecture				Lecturer Dr. Claudiu Zdrehuş					
Responsible for practical			Lecturer Dr. Claudiu Zdrehuş						
activity				Assistant Dr. Alexandru Alexa					
The formative category of			DS						
the discipline									
Comp	Compulsory discipline			Compulsory					
**	G		/week	ho	urs/semes	ster	TD . 1	al Credits	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total		Assessment
1	1	1	1	14	14	22	50	2	E

Pre-conditions (Preliminary	Biology, Anatomy and physiology
conditions)	Knowledges of human biology, anatomy and physiology
Requisites	-

Professional	•	First Aid and medical assistance in emergency medicine
competences		
Transversal	•	Knowledge's and practical skills which are necessary for the
competences		management of emergencies
General objectives	•	Introducing the concept of emergency medicine and medical
		assistance of emergencies
Specific objectives	•	Introducing theoretical knowledge's and practical skills which
		are necessary for the management of emergencies

	LECTURES
Teaching methods	Oral presentation power point, video presentation
Content	1. Protection measures in case of emergencies. Call for help and inform about the possible danger
	2. First aid for a patient who is unconscious but is breathing spontaneously
	3. Cardio-pulmonary resuscitation (BLS) I
	4. Cardio-pulmonary resuscitation (CPR) in children
	5. Paediatric foreign body airway obstruction
	6. First aid in special situations
	Bleeding, Shock, Heat stroke, Seizures (convulsions), Open wounds
	7. First aid in the case of burned patient
	8. First aid in the case of hypothermia
	9. First aid in case of aspiration and drowning
	10. Hanging Injuries and Strangulation

11. First aid in the case of animal bites First aid in case of insect bites and stings 12. First aid in case of trauma patient 13. First aid in a road traffic accident 14. First aid in the case of overdose and poisoning PRACTICAL ACTIVITES Teaching Practical lessons, virtual simulations, case discussions, practice on manikines Practical Extension of the head, Esmach maneuver, Saffar maneuver, use of naso and oropharyngean airway on manikin, Heimlich maneuver. Mouth to mouth, mouth to nose, AMBU bag and mask ventilation on manikin External cardiac massage on manikin Rautek maneuver, use of a collar for imobilisation of the cervical spine Positioning the comatose patient, safety position Peripheral venous access, IM, SC injections and establishing an infusion set Recapitulation of practical techniques and skills, team work scenario Content 1. Clearing and maintaining the airway. Airway Management: clearing of the upper airways, head extension, anterior subluxation of the mandible, triple Safar manouver, Oro and nasopharyngean tubes, Heimlich manouver 2. Clearing of the upper airways, head extension, anterior subluxation of the mandible, triple Safar manouver, Oro and nasopharyngean tubes, Heimlich manouver		T
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13. First aid in a road traffic accident 14. First aid in the case of overdose and poisoning PRACTICAL ACTIVITIES Teaching methods Practical lessons, virtual simulations, case discussions, practice on manikines Extension of the head, Esmach maneuver, Saffar maneuver, use of naso and oropharyngean airway on manikin, Heimlich maneuver. Mouth to mouth, mouth to nose, AMBU bag and mask ventilation on manikin External cardiac massage on manikin Rautek maneuver, use of a collar for imobilisation of the cervical spine Positioning the comatose patient, safety position Peripheral venous access, IM, SC injections and establishing an infusion set Recapitulation of practical techniques and skills, team work scenario Content 1. Clearing and maintaining the airway. Airway Management: clearing of the upper airways, head extension, anterior subluxation of the mandible, triple Safar manouver, Oro and nasopharyngean tubes, Heimlich manouver 2. Clearing and maintaining the airway. Airway Management: clearing of the upper airways, head extension, anterior subluxation of the mandible, triple Safar manouver, Oro and nasopharyngean tubes, Heimlich manouver Oro and nasopharyngean tubes, Heimlich manouver,		
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the mandible, triple Safar manouver, Oro and nasopharyngean tubes,		
Tienmen manouver		
3. Ventilation (Mouth to mouth, mouth to nose, AMBU bag and		
mask ventilation), indications, technique, complications		
4. Ventilation (Mouth to mouth, mouth to nose, AMBU bag and		
mask ventilation), indications, technique, complications		, , ,
5. External cardiac massage parameters, technique, complications		
6. External cardiac massage parameters, technique, complications		
7. Rautek manouver (first aid for road traffic accident)		
immobilisation of the cervical spine: indications, cautions, technique,		*
material (6: 4:16 14 66: 11 4)		
8. Rautek manouver (first aid for road traffic accident)		
immobilisation of the cervical spine: indications, cautions, technique,		<u> </u>
material		
9. Positioning the comatose patient : waiting and transport position,		
indications and technique		
10. Positioning the comatose patient : waiting and transport position,		
indications and technique		
11. Peripheral venous access and establishing an infusion set:		
indications, material, technique, complications. Intramuscular and		
subcutaneous injections		subcutaneous injections

	12.Peripheral venous access and establishing an infusion set:					
	indications, material, technique, complications. Intramuscular and					
	subcutaneous injection	ons				
	13. Recapitulation. T	eam work for CPR scen	ario			
	14. Recapitulation. T	eam work for CPR scen	ario			
Bibliography	1. European Resuscitation Council Guidelines for Resuscitation 2021					
	2. Irwin RS. Rippe J M Manual of intensive care medicine, 5th					
	Edition, Lippincott Williams & Wilkins, 2020					
	3. www.emedicine.com/emerg/index.shtml					
	4. E-support of lectures					
Evaluation:	Written exam	Practical exam	Activity during the			
	semester:					
Percent of the	50%	50% 50% %				
final grade:						

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies				Cluj-Napoca					
Faculty			Dental	Dental Medicine					
Domain of study			Health						
Academic degree			Dental	Medicine	e in Engl	ish			
Level	of cour	se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radi	ology	
Discip	Discipline			MaxilloFacial Surgery and Implantology					
Cours title			BEHAVIORAL SCIENCES						
Responsible for lecture			Lecturer Dr. Armencea Gabriel						
Responsible for practical			Vacan	Vacancy position Assist. Prof. pos. 39					
activity									
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the di	scipline	•							
Compulsory discipline		Compulsory							
3.7			/week	ho	urs/semes	ster		G 11:	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	1	14	14	22	50	2	V

Pre-conditions (Preliminary conditions)	-
Requisites for lectures and	Lectures will be held in a projection system –
practical activities	equipped amphitheater
	If required: the educational platform of the university

Professional competences	The ability to utilize specialized terminology appropriately and in context
_	 Gaining cognitive abilities in the field of behavioral sciences

	 Further understanding of health psychology,
	Gaining knowledge about the principles of medical ethics and
	deontology as well as medical responsibility,
	Obtaining knowledge that will serve as basis for comprehensive
	doctor-patient relationships, and for social and professional
	integration as a future doctor.
Transversal	Utilizing the assimilated notions in new contexts
competences	Applying theoretical notions in practical activities
r · · · ·	Establishing interdisciplinary correlations within the studied fields
	Expanding their pursuit of professional improvement by training
	their analytical and sythetical thinking
	Demonstrating their involvement in research activities, for instance
	scientific research.
General	The course offers Ist year Dental Medicine students the chance to
objectives	assimilate knowledge necessary for social and professional
	integration as future doctors; acquiring cognitive abilities in the field
	of behavioral sciences and further understanding of health
	psychology, studying ethical and deontological principles as well as
	medical responsibility and obtaining knowledge that will serve as
	basis for comprehensive doctor-patient relationships.
	• The seminars have the purpose of acquiring and evaluating the
	necessary knowledge for social and professional integration as a
	future doctor; obtaining cognitive abilities in the field of behavioral
	sciences; further understanding of the concepts of health psychology,
	studying ethical and deontological principles as well as issues of
	medical responsibility and obtaining knowledge which will serve as
	basis for comprehensive future doctor-patient relationships.
Specific	Obtaining the necessary knowledge for social and professional
objectives	integration as a future doctor.
	 Acquiring cognitive abilities in the field of behavioral sciences.
	 Further understanding of the concepts of health psychology.
	 Studying ethical and deontological principles as well as medical
	responsibility and obtaining knowledge that will serve as basis for
	comprehensive doctor-patient relationships.
	Exercising one's synthesising and bibliographic documentation
	ability.

	LECTURES			
Teaching	eaching Lecture, systematic, interactive presentation. Oral presentations,			
methods	Power-Point presentations			
Content	1. Introduction to behavioral sciences – the importance and purpose of			
	behavioral sciences in the formation of the doctor and their social and			
	professional integration.			
	2. Health psychology. The social perception of the medical profession.			

	3. Ethics, morals and medical deontology. Medical duty.					
	4. Diagnostic and therapeutic risks. The principles of the therapeutic					
	relationship.					
	5. Medical responsibility. Interpersonal communication in medicine.					
	6. Psychological types of healthcare practitioners. Psychological					
	profiles of patients. Psychosomatic medicine.					
	7. Ethical principles in human research. Ethical principles in the					
	application of genetic discoveries. Assisted human reproduction.					
	8. Stress in the spirit of behavioral sciences.					
	9. Social behavior. Alimentation behavior. Sexual behavior.					
	10. The doctor and the quality of life.					
	11. Team work: doctor – assistant – psychologist – psychiatrist – priest					
	 social worker – patient. Organ transplant ethics. 					
	12. Assistance in chronic and terminal illnesses. Medicine and religion					
	13. Medical bioethics and Christian morality. The ethics of preventive					
	medicine and health promotion.					
	14. Preventive medicine and health promotion programs. Continual					
	medical learning.					
	PRACTICAL ACTIVITIES					
Teaching	PowerPoint presentations, interactive teaching					
methods						
Practical	Scheduled interactive learning					
activity carried						
out by students						
Content	1. Introduction to behavioral sciences. Importance and purpose in the					
	formation of the doctor and their socio-professional insertion.					
	2. Health psychology. The social perception of the medical profession					
	2. Hearth psychology. The social perception of the medical profession.					
	3. Ethics, morality and medical deontology. The medical duty.					
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	 Ethics, morality and medical deontology. The medical duty. Diagnostic and therapeutic risks. The principles of the therapeutic relationship. Medical responsibility. Interpersonal communication in medicine. Psychological types of healthcare practitioners. Psychological profiles of patients. Psychosomatic medicine. Ethical principles in human research. Ethical principles in the application of genetic discoveries. Assisted human reproduction. Stress in the spirit of behavioral sciences. Social behavior. Alimentation behavior. Sexual behavior. The doctor and the quality of life. Team work: doctor – assistant – psychologist – psychiatrist – priest 					
	 Ethics, morality and medical deontology. The medical duty. Diagnostic and therapeutic risks. The principles of the therapeutic relationship. Medical responsibility. Interpersonal communication in medicine. Psychological types of healthcare practitioners. Psychological profiles of patients. Psychosomatic medicine. Ethical principles in human research. Ethical principles in the application of genetic discoveries. Assisted human reproduction. Stress in the spirit of behavioral sciences. Social behavior. Alimentation behavior. Sexual behavior. The doctor and the quality of life. Team work: doctor – assistant – psychologist – psychiatrist – priest – social worker – patient. Organ transplant ethics. 					
	 Ethics, morality and medical deontology. The medical duty. Diagnostic and therapeutic risks. The principles of the therapeutic relationship. Medical responsibility. Interpersonal communication in medicine. Psychological types of healthcare practitioners. Psychological profiles of patients. Psychosomatic medicine. Ethical principles in human research. Ethical principles in the application of genetic discoveries. Assisted human reproduction. Stress in the spirit of behavioral sciences. Social behavior. Alimentation behavior. Sexual behavior. The doctor and the quality of life. Team work: doctor – assistant – psychologist – psychiatrist – priest – social worker – patient. Organ transplant ethics. Assistance in chronic and terminal illnesses. Medicine and religion 					
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	 Ethics, morality and medical deontology. The medical duty. Diagnostic and therapeutic risks. The principles of the therapeutic relationship. Medical responsibility. Interpersonal communication in medicine. Psychological types of healthcare practitioners. Psychological profiles of patients. Psychosomatic medicine. Ethical principles in human research. Ethical principles in the application of genetic discoveries. Assisted human reproduction. Stress in the spirit of behavioral sciences. Social behavior. Alimentation behavior. Sexual behavior. The doctor and the quality of life. Team work: doctor – assistant – psychologist – psychiatrist – priest – social worker – patient. Organ transplant ethics. Assistance in chronic and terminal illnesses. Medicine and religion Medical bioethics and Christian morality. The ethics of preventive medicine and health promotion. 					
	 Ethics, morality and medical deontology. The medical duty. Diagnostic and therapeutic risks. The principles of the therapeutic relationship. Medical responsibility. Interpersonal communication in medicine. Psychological types of healthcare practitioners. Psychological profiles of patients. Psychosomatic medicine. Ethical principles in human research. Ethical principles in the application of genetic discoveries. Assisted human reproduction. Stress in the spirit of behavioral sciences. Social behavior. Alimentation behavior. Sexual behavior. The doctor and the quality of life. Team work: doctor – assistant – psychologist – psychiatrist – priest – social worker – patient. Organ transplant ethics. Assistance in chronic and terminal illnesses. Medicine and religion Medical bioethics and Christian morality. The ethics of preventive 					

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	"Iuliu Haţieganu" Clı							
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	1997							
	3. Schmalbach I, Herhaus B, Pässler S, et al. Cortisol reactivity in patients with anorexia nervosa after stress induction [published]							
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			· · · · · -					
	Psychiatry. 2020; doi:10.1038/s41398-0	10(1):275. Published	2020 Aug 10.					
		and Behavioral Medicing	e 2021 Vol 9 No 1					
	582–599,	and Benavioral Medicin	10, 2021, 101. 7, 110. 1,					
	·	al. BMC Psychiat	ry (2018) 18:375,					
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	Comportment, beyond the Mind and Behavior. Integr Psychol Behav							
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	29063995; PMCID: F	PMC5846864.						
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	doi:10.1371/journal.pone.0202335							
	8. Achnak S, Schippers A, Vantilborgh T. To deny, to justify, or to							
	apologize: Do social accounts influence stress levels in the aftermath							
	of psychological contract breach?. BMC Psychol. 2021;9(1):5.							
	Published 2021 Jan 6. doi:10.1186/s40359-020-00505-2							
Evaluation:	Written exam	Written exam Practical exam Activity during the						
			semester:					
Percent of the	_	-	100%					
final grade:			20070					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgraduate studies	Cluj-Napoca				
Faculty	Dental Medicine				
Domain of study	Health				
Academic degree	Dental Medicine in English				
Level of course	I and II- License and masters				
Qualification	Doctor of Dental Medicine				
Department	1 Anatomy and Embriology				
Discipline	Anatomy and Embriology				
Cours title	ANATOMY AND EMBRIOLOGY				
Responsible for lecture	Lecturer Dr. Alexandru Badea				
Responsible for practical	Teaching Assistant Dr. Budusan Maria				
activity	Teaching Assistant Dr. Herdean Andrei				
The formative category of	DF				
the discipline					
Compulsory discipline	Compulsory/ optional/facultative				
Year Sem hours/week	hours/semester Total Credits Type of				

		C	LP/S	C	LP/S	SI			Assessment
1	2	3	3	42	42	41	125	5	E

Pre-conditions (Preliminary conditions)	-
Requisites for lectures and	The course is organized for a whole series of students.
practical activities	Students will attend classes at the place and on the days
	set according to the schedule.
	The student's behavior must be civilized, adapted to academic life.
	Attendance at the course is mandatory, being accepted a
	maximum of 20% absences from the total course hours.
	The practical workshops are organized in groups of
	students.
	The students will present themselves at the workshops in
	the place and on the days established according to the
	schedule.
	The student's behavior must be civilized, adapted to academic life.
	Lack of respect for the teaching material will not be
	tolerated, whether it is anatomical pieces or a corpse.
	Students are required to participate in the ongoing
	checks, postponement without good reason is not
	accepted

Professional	Mastering anatomical terminology.
competences	 Acquisition by the student of an adequate medical language. The acquisition by the student of the theoretical and practical notions of the individual anatomical elements and of the compound structures (systems of organs and apparatuses). Correct mastery of exploration maneuvers and dissection techniques of normal anatomical structures. Descriptive and topographic recognition of the anatomical elements of the human body.
	 Correlation of knowledge of descriptive anatomy with live morphological exploration of the notions of radio-anatomy. Correlation of the elements of topographic anatomy with
Transversal competences	 some notions of medical semiology. Concern for professional development by training critical thinking skills demonstrated through active participation in the course and laboratory / seminar / project; Involvement in scientific research activities by participating
	in the elaboration of papers, studies, specialized articles;

	 Efficient use of information sources and resources of communication and assisted professional training (Internet portals, specialized software applications, databases, online courses, etc.) both in Romanian and in a language of international circulation; Recognition of the normal anatomical element and evaluation of its participation in achieving a pathological condition, anatomical support of any non-invasive exploratory act (CT, MRI) or invasive (surgical act).
General objectives	 Knowledge of the elements of descriptive and topographic anatomy of all components of the human body. Knowledge of regions and spaces of the human body on axial segments (head, neck, trunk) or appendicular (limbs) in the topographic anatomy. Knowledge of the complex morphology of organ and apparatus systems. Morphological exploration on the prepared piece (corpse) and of the macroscopic and digital anatomical sections. Acquiring international anatomical terminology (anatomical nomenclature).
Specific objectives	 Knowledge and understanding of anatomical elements. Recognition of all anatomical elements. Knowledge of the relationships between different anatomical elements. Study of topographic regions and sectional anatomy. It is proposed that at the end of the course students be able to through practical study on the corpse and on various anatomical preparations, study of imaging anatomy, understanding and deepening the notions of clinical anatomy, correlation of theoretical data with those of applied anatomy to achieve a solid anatomical training, necessary during the university period, which is indispensable for the future dentist.

	LECTURES
Teaching methods	Master class. Interactive presentation of the material according to the analytical program using multimedia means, powerpoint presentations, didactic films, specific software.
Content	1. Topographic regions chap
	2. Viscerocranium. Maxilla and mandible. Anthropometric points. Bone pits: nasal, infratemporal and pterygopalatine. Orbit. Paranasal sinuses

	3. Oral cavity, salivary glands. Temporo-mandibular joint. Chewing							
	muscles							
	4. Neck topographic regions. Cervical plexus, cervical sympathy							
	5. Pharynx, larynx. Thyroid, parathyroid glands. Head-neck vascularization							
	6. Cranial nerves 1 7. Cranial nerves 2. Anatomical landmarks in oral anesthesia							
	7. Cranial nerves 2. Anatomical landmarks in oral anesthesia							
	8. Head and neck development. Anomalies 1							
	9. Head and neck development. Anomalies 2							
	10. General nervous system. Spinal cord							
	11. The brainstem. cerebellum							
	12. The diencephalon. Cerebral hemispheres. CNS vascularization							
	13. Development of SN. abnormalities							
	14. Sectional anatomy							
	PRACTICAL ACTIVITIES							
Teaching	Checking the students' theoretical knowledge about the current work,							
methods	proving by the student the knowledge of the dissection method,							
	evaluating the way each student works.							
Practical	Identification of macroscopic anatomical elements on cadaveric parts,							
activity carried	macroscopic anatomical preparations, sections, anatomical and imaging							
out by students	plates.							
Content	1.Skull bone demonstration: occipital frontal, parietal, ethmoid,							
	sphenoid, temporal, palatine, zygomatic, hyoid. The maxilla and the							
	mandible.							
	2. The neurocranium. The viscerocranium. The Paranasal sinuses.							
	3. The orbit. The nasal cavity. The infratemporal. The temporal and the							
	pterygopalatin fossa.							
	4. Dissection of the platysma muscle and superficial cervical fascia.							
	The superficial vessels and nerves. The sternocleidomastoid muscle.							
	The Ansa cervicalis. The middle cervical fascia. The infrahyoid							
	muscles. The neurovascular bundle of the neck.							
	5. The thyroid and parathyroid glands. The thyroid vessels. The							
	suprahyoid region.							
	The submandibular gland. The supraclavicular region. The subclavian							
	vessels. The suprascapular vessels. The cervical. The scalene muscles.							
	6. The facial muscles. The facial vessels. The facial nerve. Dissection							
	of the facial nerve and facial artery. The inferior and superior facial							
	regions. The temporal fossa. The masseter and temporal muscles. The							
	parotid region and parotid gland. Dissection of the salivary glands. The							
	prevertebral muscles and the deep cervical fascia.							
	7. The exopharynx. The mandibulo – vertebro - pharyngeal space. The							
	styloid diaphragm. The prestyloid space. The pterygoid muscles. The							
	trigeminal nerve. The mandibular nerve. The otic ganglion. Dissection							
	of the trigeminal nerve and it's branches. The maxillary artery. The							
	retrostyloid space. The endopharynx. The structure of the pharynx.							

- 8. The oral vestibulum. The walls of the oral cavity. The teeth and the gingiva. The mandibular nerve. The soft palate. The pharyngeal vestibule. The palatine tonsils. The Inferior alveolar neurovascular bundle.
- 9. The tongue. The lingual nerve, the lingual artery. Dissection of the lingual artery. The sublingual gland, the sublingual space, the glossopharyngeal nerve.

The larynx.

- 10. The external nose. The nasal fossa. The paranasal sinuses. Dissection of the maxillary sinus. The maxillary nerve. The temporo mandibular joint. The ophthalmic nerve.
- 11. The spinal meninges. External aspect and relations of the spinal cord. Spinal

ganglia and nerve. Structure and blood vessels of the spinal cord. The membranes and blood supply of the brain. The subarachnoid space. The subarachnoid cisterns. The sinuses of the dura mater. The vessels and the cranial nerves at the base of the skull. The hypophysis. Section through the cerebral peduncles.

- 12. External aspect of the brain stem. The apparent origin of the cranial nerves. The structure of the brain stem. Cerebellum: external aspect, relations, structure. The fourth ventricle. The prosencephalon. External aspect of the cerebral hemisphere. The Corpus callosum and lateral ventricles. The fornix.
- 13. The third ventricle. The structure of the Diencephalon and Telencephalon. Dissection of the insular lobe. Brissaud and Pitres sections. The corpus striatum, external configuration and structure. The structure of the cerebral hemisphere. Cortical regions. Synthesis of the nervous pathways.
- 14. The eyelids and the lacrimal apparatus. Dissection of the orbit. The occulomotor nerve. The Trochlear nerve. The ophthalmic nerve. The abducens nerve. The eyeball. The optic neve. The ophthalmic artery. The external and middle ear. The internal ear. The vestibulocochlear nerve

Bibliography

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- Gray's Anatomy for Students, Fourth Edition, Richard L. Drake;
 A. Wayne Vogl; Adam W. M. Mitchell, ISBN 9780323393041,
 Elsvier, 2019
- 3. Moore Keith L., Agur Anne M.R., Essential Clinical Anatomy, Williams & Wilkins, 1995, ISBN 0-683-06128-3
- 4. Mc Minn R.M.H. Last's Anatomy Regional and Applied, 8-th Edition, 1990; Churchill Livingstone.
- 5. Sadler T.W., Langman's Medical Embryology, 6-th Edition; Williams & Wilkins, 1992
- 6. Schumacher G-H, Topographic Anatomy, Veb Georg Thieme

Percent of the final grade:	50%	40%	semester: 10%					
Evaluation:	Written exam	Practical exam	Activity during the					
	Churchill Livings	Churchill Livingstone, 1995, ISBN 0-443-04560-7						
	8. Williams P., Warwick R.& Co, Gray's Anatomy 38th Edition,							
	society and Pitman, 1984, ISBN 0-272-79766-9							
	Human Embriology, Third Edition, The English Language book							
	7. Smith Wendel C.P., Williams P.L., Treadgold Sylvia, Bas							
	Leipzig, 1985							

Institu	Institution for graduate and			Univer	sity of Mo	edicine a	and Pharn	nacy "Iuliu	ı Haţieganu"
postgraduate studies			Cluj-Napoca						
Facult	Faculty			Dental	Medicine	•			
Doma	Domain of study			Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			1 Phari	maceutica	l physic	S		
Discip	Discipline			Physics Biophysics					
Cours	Cours title			BIOPHYSICS					
Respo	Responsible for lecture			Assoc.Prof. Dr. Nicoleta Simona Vedeanu					
Respo	Responsible for practical			Assoc.	Prof. Dr.	Nicoleta	a Simona	Vedeanu	
activit	t y			Lecturer Dr. Iacovita Cristian					
The fo	ormativ	e catego	ry of	DF					
the di	scipline	9							
Comp	Compulsory discipline			Compulsory					
* 7	hours/week		s/week	ho	urs/semes	ter		Type of	
Year	Year Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
1	2	1	2	14	28	33	75	3	Е

Pre-conditions (Preliminary conditions)	Notions of physics at high school level for medical application
	Notions of physics at high school level
Requisites for lectures and	Amphitheatre + blackboard and projection system
practical activities	Laboratory room with specific instruments and devices

Duefessional		A 1 *1*4			1	1	•	, 1		.1	. 1. 1
Professional	•	Ability	to	use	properly	and	ın	the	context	tne	specialized
competences		termino	logy								
	•	Knowle	dge	of ph	ysical mod	dels, t	he g	enera	al princip	les of	mechanics,
		thermodynamics, electromagnetism main laws, optics and structure									
		of matter at atomic and subatomic level									
	•	Ability	to ex	kplair	n and inter	pret tl	ne th	eoret	tical and	practi	cal contents
		of phys	ics i	n an	interdiscip	olinary	y ap	proac	ch with o	ther	fundamental

	biomedical as chemistry, mathematics, cellular biology,
	biochemistry
	Understanding of peculiar aspects of pharmaceutical physicsf
	research
	Training skills of using specific methodologies and laboratory
	techniques
	Gaining experience and ability in handling laboratory equipment and
	techniques specific for the study of physics applied in life sciences:
	determination of properties and specific physical constants of
	materials: density of liquids and solids, specific heat, melting point, boiling temperature, surface tension coefficient, viscosity
	boiling temperature, surface tension coefficient, viscosity coefficient, refractive index, specific rotation angle etc.
	• Students necessity to acquire skills needed to use laboratory equipment: electrical equipment, spectroscopes, spectrophotometers
	, radiation detectors, pH meters, conductometers, oscilloscopes,
	polarimeters
	 Students ability for the determination of some simple medical tests:
	hematocrit, hemoglobin, serum protein electrophoresis, the
	isoelectric point of proteins
	• Students necessity to acquire specific skills for experimental
	measurements: errors calculation, graphics, linear interpolation
Transversal	Using the concepts in new contexts
competences	Using theoretical knowledge in solving problems
	Optimal and creative use of individual potential in and scientific
	activities
	Individual professional development
General	• Students must be able to explain based on the laws of physics the
objectives	physical properties (mechanical, optical, thermal properties) of
	biological materials and dental materials, physiological and
	pathological processes occurring in biological systems; the
	relationships between physical and biological role of organic
	molecules, the effects of environmental factors on biological
	systems, the principles that underlie dental radiographic methods,
C	applications of lasers in dentistry
Specific	Students should be able to explain: The description of the descr
objectives	• The physical principles underlying the physical methods and
	equipment used in dental medicine and research, quantitative, qualitative and structural analysis of different molecules of
	qualitative and structural analysis of different molecules of biological interest
	The physical - chemical and biological role of organic
	macromolecules based on structural data
	 Environmental effects on biological systems, mainly the effects of
	ionizing radiation.
	romang radiation.

LECTURES

Teaching	Lecture, systematic exposition, conversation, questioning							
methods	Thermal manaries of dental metaricle							
Content	Thermal properties of dental materials							
	1. First principle of thermodynamics. Work. Heat. Internal energy.							
	Applications. Calorimetry. Conservation of energy in the biological							
	systems							
	2. Second principle of thermodynamics.							
	Specific heat of solids. Vaporization and boiling. Distillation. Clausius							
	Clapeyron equation Melting and freezing. Eutectics. The triple point. The phases rule.							
	Heat transport mechanisms 2. The transport of beet by conduction (Fourier), convection and							
	3. The transport of heat by conduction (Fourier), convection and							
	radiation (radiation laws). Termoregulation at body level							
	Notions of fluids 4. Static fluid machanics, Pascal's lavy Archimode's lavy Dynamics of							
	4. Static fluid mechanics. Pascal's law Archimede's law. Dynamics of							
	fluids. Rheology. Notions of rheology for dental materials. Bernoulli law. Newton law							
	5. Viscosity Non-Newtonian fluids. Surface tension. Jurin's law. Surfactant.							
	Biophysics of blood circulation Colligative properties of the solutions							
	Colligative properties of the solutions 6. Osmosis. Medical applications							
	Biomechanics.							
	7. Mechanical properties of teeth and dental materials: elasticity							
	modulus, fracture resistance, hardness Sounds							
	8. Sensory biophysics. Infra- and ultra- sounds. Application in							
	medicine. Weber Fechner law. Doppler effect. Human ear							
	Optical properties of the matter							
	9. Light: nature and properties. The absorption of light. Spectrophotometric determination of solution concentrations.							
	Fluorescence, Fluorescence of teeth and dental materials. Polarized							
	light.							
	10. Lenses. Human eye. Microscopes and application in medicine							
	Elements of radiation physics							
	11. General notions of atomic physics. Fotonic optics. Photoelectric							
	effect. Compton effect. Pair formation							
	12. Microwaves. Medical X-ray radiography, computer tomography,							
	tomodensitometry							
	Nuclear physics							
	13. Atomic nucleus. Nuclear forces. Isobars. Isotopes Nuclear models.							
	Natural and artificial radioactivity. Decay law							
	14. Irradiation doses. Biological dose. Protection against radiation.							
	Medical applications (radiotherapy, scintigraphy, PET)							
	PRACTICAL ACTIVITIES							
Teaching	Lecture, systematic exposition, conversation, questioning,							
reaching	Lecture, systematic exposition, conversation, questioning,							

methods	demonstration						
Practical		working teams of 2-3 peo	onle. Collecting data is				
activity carried	team work; calculation, interpretation, graph is individual work						
out by students							
Content	1. Internal rules discussion						
	Physical measures and units, errors calculation						
		on. Liquids and solids de	ensity measurements by				
	pycnometer.	and and somes are	more in the management of				
	3. Viscometers. Hopp	ler viscometer					
	4. Viscometers. Ostwa						
		fficient determination - T	rauhe method				
		ic heat determination soli					
	· -	efficient determination	us and riquius. The				
		ysis, e.m.f. determination	of galvanic element				
	galvanic cell, pH deter		or garvanic element,				
		ermination of solution cor	ncentration				
		nination of solution conce					
		c determination of concer					
	biological interest	e determination of concer	itration for solutions of				
	11. Lenses. Optical m	icroscone					
	12. Air humidity deter	*					
	13. Revision. Exam pr						
	14. Practical exam	cparation. Discussion					
Bibliography	Lectures and lab materials in electronic format						
Dibnography	2. Sears and Zemansky University Physics, H. Young, R. Freedman,						
	1. Ford, 12 th Edition, Pearson Addison Wesley Publisher, 2007						
	3. F. Gremy, Biophysique, Ed. Flammarion, Paris, 1982						
	la vie, Ed. Belin, Paris, 1988						
	-	ola, Materiale dentare.	Consideratii clinice si				
		ura Casa Cartii de Stiinta,					
		M.I.Isac, C.Tarba, Biof					
	Pedagogica, Buci		•				
	7. Physics in Biolo	ogy and Medicine, 3 rd	edition, P. Davidovits,				
	Complementary S	Science Series Academic	Press, 2007				
	8. A. Aurengo, T.	Petitclerc, Biophysique	3 rd edition, Medicine-				
	Sciences Flamma	rion, 2006					
	9. Il mondo Fisico,	V. Bacciarelli, P. A. Giu	istini, Trevisini Editore,				
	Milano, 1						
		nysique et Biophysique					
	Medicala Univers	sitara "Iuliu Hatieganu" C	luj-Napoca, 2000				
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	60 %	20 %	20 %				
final grade:							

Institu	Institution for graduate and			Univer	sity of M	edicine a	and Pharn	nacy "Iuliu	ı Haţieganu"	
postgi	postgraduate studies			Cluj-Napoca						
Facult	Faculty			Dental Medicine						
Doma	Domain of study			Health						
Acade	mic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	rse		I and I	I- License	and ma	sters			
Qualit	fication	1		Doctor	of Denta	l Medici	ne			
Depar	tment			3 Mole	cular Sci	ences				
Discip	Discipline			Cellula	r and mo	lecular b	oiology			
Cours	Cours title			CELLULAR AND MOLECULAR BIOLOGY						
Respo	Responsible for lecture			Adrian Florea, MS, PhD, Professor						
Respo	nsible	for pract	tical	Adrian Florea, MS, PhD, Professor						
activit	$\mathbf{t}\mathbf{y}$			Adina Ancuţa Chiş, MS, PhD, Senior lecturer						
				Lucian Frențescu, MD, PhD, Senior lecturer						
				Gheorghe Zsolt Nicula, MD, PhD, Senior lecturer						
The fo	ormativ	ve catego	ry of	DF						
the di	the discipline									
Comp	Compulsory discipline			Compulsory						
**		hours	/week	ho	urs/semes	/semester		a	Type of	
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment	
1	2	2	2	28	28	44	100	4	E	

Pre-conditions	Biology, Chemistry at High School level
(Preliminary conditions)	
Requisites for lectures	Students will have the phones turned off during the lectures
and practical activities	and will not leave the classroom in order to retrieve personal
	phone calls;
	Consumption of foods and beverages during the course is prohibited;
	No delay will be tolerated as this affects the education process;
	Students are required to attend at least 70% of the lectures
	(10 out of 14 two-hour lectures). Their presence will be
	documented by personal signatures on the presence sheet.
	Lecture absences can be cancelled only if attending the same
	lecture in another day of that week with a different series.
	Students will have the phones turned off during the
	practical works and will not leave the classroom in order to
	retrieve personal phone calls;
	Consumption of foods and beverages during the course is
	prohibited;
	No delay will be tolerated as this affects the education
	process;
	Students are required to attend all practical works in white

labcoats with writing and drawing instruments (including colored pencils), guides for practical works and notebooks
including an abstract of the practical work scheduled for that
week;
Students could be examined orally or in writing in regard to
theoretical and practical knowledge concerning the practical
work scheduled for that week or about theoretical aspects of
cell and molecular biology lectured in the previous week;
Presence in all practical works of cell and molecular biology
(14 two-hour sessions) is compulsory. Absences need to be
recovered according to regulations established by the
university senate

Professional	To understand the basic concents of the call arganization and the
competences	• To understand the basic concepts of the cell organization and the
competences	organization and functioning of the genetic material;
	• To understand the medical applications of fundamental theoretical
	concepts of Cell and Molecular Biology needed for a physician;
	• To develop laboratory practical skills needed in subsequent years
	of medical practice (correct use of the light microscope, DNA isolation techniques);
	<u>*</u> ''
	To identify and describe morphological and ultrastructural aspects of cellular components as well as changes occurring during
	biological processes (mitosis) by optical microscope studies of
	biological processes (intosis) by optical interoscope studies of biological preparations and transmitting/scanning electron
	microscopy images, respectively;
	 To use efficiently information resources in the field of cell and
	molecular biology;
	 To correctly understand and analyze results in scientific articles.
Transversal	To demonstrate concerns for professional development through
competences	training of critical thinking abilities;
COP COCCOS	To demonstrate involvement in research, e.g. writing of scientific
	articles;
	To demonstrate the ability to use digital techniques to gain
	information in the field of cell and molecular biology.
General	Students graduating this course will be able to understand the
objectives	medical applications of fundamental theoretical concepts
	regarding cell and molecular biology needed for a physician and
	will develop some molecular medicine laboratory skills needed in
	the coming years of medical practice.
Specific	Students graduating this course will be able to:
objectives	o compare the general characteristics of prokaryotes and
	eukaryotes;
	o discuss the structure - function relationship of the most
	important types of molecules (nucleic acids, proteins,
	carbohydrates and fats) and know how to spot them in cellular

- structures;
- o argue the unity of the living matter's biochemical organization;
- explain the structure, functions and cellular location of the cytoplasmic matrix components and the medical applications resulting from their study;
- o define biological membranes, classify the main types of cell membranes and describe their molecular organization;
- o define receptors and exemplify key mechanisms they are involved in;
- classify membrane transport, explain the mechanisms by which the most important transport modalities occur and exemplify some pathological implications;
- o classify membranes' implications in pathology based on their molecular mechanism:
- characterize morphologically and ultrastructurally the interphase nucleus, enumerate the chromosomes' functions and describe their morphological characters, characterize and present medical applications of the nuclear chromatin resulted from its study;
- o list and describe the stages of mitosis and meiosis;
- describe the morphology, ultrastructure and chemical composition of cell organelles (endoplasmic reticulum, Golgi apparatus, lysosomes, peroxisomes, mitochondria), detail their functions and describe the medical applications resulting from their study;
- define cellular necrosis and apoptosis and explain their occurrence;
- o explain the significance of the central dogma of molecular biology and summarize its schematic representation;
- describe the mechanisms of DNA replication, transcription and translation of genetic information, present medical applications resulting from the study of these processes, explain the significance of the genetic code and detail amendments to the central dogma of molecular biology;
- present the unifying theory of cancers and recognize the oncogenes' characteristics, exemplify carcinogens and detail the cellular mechanisms of cancers;
- describe the light microscope components, explain how images are formed on the human retina, properly use laboratory microscopes;
- describe the basic principles of some special light microscopy techniques, as well as transmission and scanning electron microscopy;
- recognize the main chemical cellular components and pigment inclusions in permanent histochemically stained preparations;
- o recognize and describe mitosis stages in permanent

	histochemically stained preparations;
0	recognize and describe the ultrastructure of cellular components
	based on the study of transmission/scanning electron
	microscopy images;
0	perform various cell and molecular biology techniques like the
	subcellular fractioning by differential centrifugation, the
	separation of lipid fractions by thin layer chromatography, and
	the DNA isolation from animal liver cells;
0	explain the general concepts of some cytogenetics methods like
	the Barr test and the human karyotyping, as well as some
	molecular medicine techniques: the separation of DNA
	fragments by agarose gel electrophoresis and the Polymerase
	Chain Reaction technique.

LECTURES				
Teaching	Academic lectures, interactive systematic presentation, and			
methods	discussions			
Content	1.Introduction to Cell and Molecular Biology. General information			
	about the cells.			
	2. Molecular basis of chemical organization of the cell.			
	3. Cytoplasmic matrix, cytoplasmic differentiations.			
	4. Molecular basis of the cell motility.			
	5.Molecular biology of the cell membranes.			
	6. Nucleus. Eukaryotic chromosomes: cell and molecular biology			
	aspects and medical applications.			
	7.Cell reproduction and cell division.			
	8. The endoplasmic reticulum.			
	9. The Golgi apparatus. Cell secretion.			
	10.Lysosomes. Peroxisomes.			
	11.Mitochondria.			
	12.Extracellular matrix and cell adhesion. Cellular recognition. Cell			
	death.			
	13. The central dogma of molecular biology and its medical			
	applications.			
	14.Malignant cells and oncogenes.			
	PRACTICAL ACTIVITIES			
Teaching	Interactive syste-matic presentation, discussions and demonstrations,			
methods	individual exercises. Acquiring concepts related to the practical works			
	through individual study based on the Practical works for cell and			
	molecular biology guide.			
Practical	Developing abilities to work with the optical microscope, recognition			
activity carried	and description of cell components' morphology.			
out by students	Performing cell and molecular biology tech-niques, learning general			
	concepts related to different cyto-genetics and molecular medi-cine			
	techniques.			
	Study of transmission and scanning electron microscopy images for			

	recognizing the cellula	ar ultra-structure, inclu-di	ng medical applications		
	of the electron microscopy.				
Content	1. The light microscope. The study of cellular movements.				
		of light microscopy: imme			
	dark field microscopy.				
	3. Special techniques of light microscopy: phase contrast microscopy				
	and fluorescence micro		1,7		
		emponents on slides with s	specific hystochemical		
	stainings. The study of	•	, , , , , , , , , , , , , , , , , , ,		
	5. The study of cell div				
		by study of the cell organe	elles.		
		ells and obtaining the isola			
		differential centrifugation			
		ribonucleic acid (DNA): e			
		d concentration measurem			
		y agarose gel electrophore			
		Chain Reaction technique			
		dria: determination of oxy			
	oxidative phosphoryla		Sen abound and or		
		om cell membranes and se	eparation of lipid		
	fractions by thin layer		opulation of here		
	13. Transmission electron microscopy applied in cellular studies.				
	14. Scanning electron microscopy. Electron microscopy images				
	(electron micrographs).				
Bibliography	Mandatory bibliography:				
8 1 1	1. English course support in electronic format;				
	2. Benga G., Introducere în Biologie Celulară și Moleculară, Ed.				
	Medicală Universitară, Cluj-Napoca, 2005.				
	3. English practical support in electronic format				
	4. Benga G. (sub redacția), Îndrumător pentru lucrările practice de				
	biologie celulară și moleculară, Editura Carpatica, Cluj-Napoca, 1997.				
	Supplementary bibliography:				
	3. Alberts B., Bray D., Hopkin K., Johnson A., Lewis J., Raff M.,				
	Roberts K. and Walter P., Essential Cell Biology, second edition,				
	Garland Publishing, Inc., New York, 2014;				
	4. Lodish H., Berk A., Kaiser C.A., Krieger M., Bretscher A., Ploegh				
	H., Amon A., Martin K., Molecular Cell Biology, 8th edition, Palgrave				
	Macmillan Higher Ed, New York, 2016.				
Evaluation:	Written exam	Practical exam	Activity during the		
D . 641			semester:		
Percent of the final grade:	70%	20%	10%		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Facult	ty			Dental Medicine						
Doma	in of st	udy		Health	Health					
Acade	emic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	:se		I and I	I- License	and ma	sters			
Qualif	fication	1		Doctor	of Denta	l Medici	ne			
Depar	tment			2 Func	tional scie	ences				
Discip	line			Physio	logy					
Cours	title			PHYS	PHYSIOLOGY					
Responsible for lecture		Associate Professor Dr. Teodora Mocan								
Responsible for practical			Associate Professor Dr. Teodora Mocan							
activit	activity			Lecturer. Dr. Alexandra Sevastre-Berghian						
	_			Assistant Professor Dr. Moga Adrian						
The fo	ormativ	e catego	ry of	DF						
the di	the discipline									
Compulsory discipline		Compulsory								
* 7			/week	ho	urs/semes	ster		G 11.	Type of	
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	
1	2	2	2	28	28	44	100	4	E	

Pre-conditions (Preliminary	-
conditions)	
Requisites for lectures and	In amphitheatre, with video projection
practical activities	The students are not allowed to enter the amphitheatre
	with turned on mobile phones. The discussions among
	the students that can disturb the educational process, are
	not allowed. The students are not allowed to leave the
	room to talk at the phone.
	Eating, drinking of any king of food and fluids are
	forbidden
	The students' delays are not tolerated because they
	disturb the educational process
	In laboratory rooms with, the specific material
	The students have to wear white coats
	An individual portfolio must be completed by each
	student
	The laboratory tests' results must be noted in the students
	notebook, that will be signed by the teacher of the
	students group

Professional	•	Ability in adequate utilization of the medical terminology		
competences	Acquire of the practical experience necessary for utilization			
		of the laboratory instruments, to investigate some		
		fundamental physiological mechanisms, and to test the		
		studied clinical parameters		

	 Ability to interpret the laboratory tests
	• Ability to correctly interpret the results of scientific studies
	Ability to efficiently use the medical sources
Transversal	Ability to use the studied notions in new conditions
competences	Ability to make correlations among the studied notions at
	different disciplines
	Ability to efficiently communicate in a team
	Concern for professional mastery through training of the
	critical thinking abilities
	Ability to use digital resources for medical data
	Acquire the interest for the own professional development
General objectives	Clearing up and understanding of some biological
	mechanisms of high complexity and difficulty
	Functional exploration of body's systems
	Development of observation sense and of the critical
	thinking, that are essential for the future's physician
Specific objectives	
	 The course aims the study of the orofacial system physiology and the structures with which this system is connected. It is focused on the physiology of salivary secretion, of chewing, swallowing, phonation and of the temporomandibular joint. Also, the defense mechanisms of the oral cavity will be explained. Furthermore, topics that are related and influence the physiology of the orofacial system such as phosphate and glucose homeostasis, growth physiology, somesthesia and orofacial pain are to be detailed. Finally, during the course the students will explore other related topics: the sense of taste and smell and peripheral segments of other sensory systems at the level of the cephalic end. Seminars and practical activities have the objective to deepen the concepts presented during the lectures and to study the most important evaluation tests involved in the physiology and pathology of the orofacial system.
	 Another aim is to use the equipment and the
	laboratory instruments in order to learn the
	physiological mechanisms.
	 To analyze the bibliographic data.
	1 20 minijas me ototrograpme ana.

LECTURES		
Teaching methods	Lecture, Systematic Speech, Conversation, Problem solving	
Content	1. Oro-facial system: structure and physiology. Physiology of the oral	
	cavity. Saliva: physical and chemical properties, composition. Salivary	
	pH. Salivary buffer systems.	
	2. The mechanism of saliva secretion. Principles of enzymes, ions and	
	waters secretion. The regulation of saliva secretion	

	T				
	3. The functions of saliva. Hormones secreted by the digestive system:				
	salivary hormones. Defense reactions in the oral cavity. Salivary				
	immunoglobulins.				
	4. Teeth physiology. Temporo-mandibular joint physiology				
	5. Phonation				
	6. Mastication. General principles of digestive motility. The physiology				
	of the mastication. The regulation of mastication. Stretch reflex in the				
	masticatory muscles.				
	7. Swallowing. The regulation of swallowing.				
	8. The roles of the cephalic phase in the regulation of the digestive				
	system. Regulation of food and water intake. Hunger and thirst. Dietary				
	balance.				
	9. Vomiting. The reflex of cough and sneezing				
	10. The sense of taste. The sense of smell.				
	11. Growth physiology. Growth hormone. The effects of thyroid				
	hormones. The effects of the sexual hormones.				
	12. The effects of insulin. The homeostasis of glycaemia.				
	Glucocorticoid hormones				
	13. Calcium and phosphate equilibrium. The roles of the calcium.				
	Calcium absorption. Vitamin D and its metabolism products.				
	Parathormon. Calcitonin				
	14. Pain. Algoreceptors. Visceral pain. Referred pain. Dental pain. Pain				
	inhibition and modulation.				
TD 1.	PRACTICAL ACTIVITIES				
Teaching	Interactive Systematic Speech, Problem Solving, Demo, Individual				
methods	Practical Activity				
Practical	Performing of Laboratory Tests, Data Interpretation, Problem Solving				
activity carried					
out by students					
Content	1. Salivary pH. Salivary buffer systems.				
	2. Microscopic examination of the saliva.				
	3. Identification of mucus and salivary electrolytes (phosphates,				
	thiocyanate).				
	4. Calcium identification in saliva. The roles of the calcium in the oral				
	cavity.				
	5. Ptyalin dosage.				
	6. Effect of high temperature on ptyalin. The influence of salivary pH				
	on amylase activity.				
	7. Gastric acidity measuring				
	8. Dietary balances. Applications. Basal metabolism evaluation				
	9. Miotatic reflexes. The mastication reflex.				
	10. EMG. Study of the skeletal muscle contraction.				
	11. Reflex areas. The ocular-cardiac reflex.				
	12. The oral glucose tolerance test.				
	13. Hypocalcemia tetany.				
	12. 11 potatorina tetanj.				

	14. The	exploration of	f the sensitivity: pain, t	ouch and temperature.			
Bibliography	1.			nd physiology, Pearson,			
		2013. Despoy	poulos A, Silbernagl S.	Color atlas of physiology,			
		Thieme, 2003	3.				
	2.	Widmaier E	EP, Raff H, Strang KT,	Vander's Human			
		physiology T Hill, 2014.	he mechanisms of bod	y function, McGraw-			
	3.	Fox I, Hum	an physiology, McGra	w-Hill, 2011.			
	4.	Tortora G, l	Derrikson B, Principles	s of anatomy and			
		physiology, J	John Wiley&Sons Inc,	2009.			
	5.	Dee Unglau approach, Pe		physiology: An integrated			
	6.						
		7. Textbook of medical physiology, Elsevier, 2006.					
		8. Escot-Stump S, Mahan LK, Krause's Food nutrition and					
	therapy, Elsevier, 2007.						
	9. Suciu S. Physiology of the Orofacial System, Clusium, 2017.						
	10.	Mitrea D.R	. Human Physiology -I	Laboratory tests. Sibiu,			
	Techno Media, 2006. ISBN (10) 973-7865-24-3. ISBN (13)						
	978-973-7865-24-3						
Evaluation:	Writ	ten exam	Practical exam	Activity during the			
				semester:			
Percent of the		80%	10%	10%			
final grade:							

Institution for graduate and		Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-N	Cluj-Napoca					
Facul	ty			Dental	Medicine	•			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			1 Morp	hologic s	ciences			
Discip	line			Histolo	ogy				
Cours title		HYSTOLOGY							
Responsible for lecture		Associate Professor Boşca Adina Bianca DMD, PhD							
Responsible for practical		Associate Professor Boşca Adina Bianca DMD, PhD							
activity		Lecturer Constantin Anne Marie MD, PhD							
-		Assista	Assistant Coneac Andrei MD, PhD						
The fo	ormativ	e catego	ry of	DF					
the di	scipline	•							
Compulsory discipline		Compulsory							
**	G	hours/week		ho	urs/semes	ster	TD . 1	G 111	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	2	2	2	28	28	44	100	4	Е

D 1:4:	
Pre-conditions	-
(Preliminary	
conditions)	
Requisites for	Attendance to lectures is mandatory 70%, equivalent to 10
lectures and	attendances during the semester.
practical activities	Students are required to turn off their mobile phones and other
	electronic devices during the lectures, the practical works/labs and
	the exams.
	The access with food or beverages in the classroom is forbidden.
	Damaging the furniture, the microscopes or breaking the
	histological slides bring the penalty consisting in the payment of
	damages.
	Smoking inside the building is forbidden.
	Attendance to practical works/laboratories is compulsory 100%.
	Absences due to medical reasons will be excused based upon the
	certificate signed by the Dean no later than 7 days.
	Unexcused absences must be paid at the UMF cashier based upon
	the payment order issued by the Histology Department no later than
	7 days.
	Both excused and unexcused absences must be recovered. Students
	must negotiate with the professors the make-up of the missed labs.
	Recovery of absences can be done during the semester (in labs
	when revision is planned) or in extra labs (organized for this
	purpose at the end of the semester).
	Students who have unrecovered absences will not be allowed to sit
	the final exams.
	The maximum number of absences (both excused and unexcused
	but paid, and recovered), is no more than 3 per semester.
	Absences above 3 (20% of 14 - the total practical works/labs during
	the semester) cannot be recovered.
	Therefore, students who have more than 3 absences will not be
	allowed to sit the final exam.
	Students will wear medical white laboratory coats, will examine the
	histological slides under the light microscope and will complete
	their portfolios.
	

Professional competences

- Ability to properly use the special histology terminology
- Ability to correctly use the light microscope
- Ability to encompass, to render accurate histological diagnosis based on tissue examination
- A fundamental knowledge of the histological structure of the tissues and organs in the human body
- Ability to analyze and interpret the microscopic structure of the human tissues and organs

	 Ability to systematically identify and range the criteria for the histological diagnoses.
	 Ability to render histological differential diagnoses for the tissues and organs.
Transversal	To demonstrate the interest for the professional performance
competences	by the acquirement of a critical reasoning.
	 To prove the ability to use the digital devices for medical research
	 To achieve communicating abilities
General	Students will be able to use their theoretical knowledge in
objectives	Histology in a clinical context, in order to acquire a proper integrated medical reasoning.
Specific	Students will be able to:
objectives	Use a light microscope
	 Analyze and interpret a histological section under the light microscope
	 Identify and differentiate the histological staining procedures
	 Render accurate histological diagnoses for the human tissues and organs
	 Render accurate differential diagnoses for the human tissues and organs based on histological diagnoses
	 Integrate the histological information into the fundamental and clinical subjects.

	LECTURES					
Teaching	Conferences, systematic and interactive presentations, Power					
methods	Point presentations, demonstrations of virtual histology, problem-					
	based learning					
Content	1. CARDIOVASCULAR SYSTEM Overview. Classification.					
	Arteries. Veins. Capillaries. Lymphatic vessels. Structure in LM and					
	EM.					
	2. HEMOIMMUNE SYSTEM part one: General considerations.					
	Definition. Immunocompetent cells, roles. Hematopoietic bone marrow					
	- Structure in LM and EM. Roles. Lymphoid tissue. Classification. B					
	and T lymphocytes. Lymphopoiesis.					
	3. HEMOIMMUNE SYSTEM part two: Spleen, Lymph node.					
	Structure in LM and EM. Roles. Histophysiology					
	4. ORAL CAVITY: Overview. Oral mucosa. Lip. Tongue. Taste buds.					
	Structure in LM and EM. Roles. Histophysiology. SKIN Structure in					
	LM and EM. Histophysiology.					
	5. ODONTOGENESIS: overview, stages of tooth development: early					
	and late bell stage. Structure in LM and EM. Periodontium					
	development; tooth eruption. Histophysiology.					
	6. ADULT TOOTH: Overview. Pulp. Dentine. Structure in LM and					
	EM. Roles. Histophysiology.					

	7. ADULT TOOTH: Enamel. Structure in LM and EM. Roles.
	Histophysiology.
	PERIODONTIUM: Gingiva. Structure in LM and EM. Roles.
	Histophysiology.
	8. PERIODONTIUM Cementum. Periodontal ligament. Alveolar bone.
	Structure in LM and EM. Roles. Histophysiology.
	9. DIGESTIVE SYSTEM: General organization of the gastro-intestinal
	tract. Esophagus. Stomach. Small intestine. Large intestine. Structure in
	LM and EM. Roles. Histophysiology.
	10. DIGESTIVE SYSTEM: Salivary glands. Pancreas. Liver. Structure
	in LM and EM. Roles. Histophysiology.
	11. RESPIRATORY SYSTEM: Trachea. Lung. Structure in LM and
	EM. Roles. Histophysiology.
	12. URINARY SYSTEM Kidney. Ureter Structure in LM and EM.
	Roles. Histophysiology
	13. ENDOCRINE SYSTEM part one: Overview. Pituitary gland.
	Structure in LM and EM. Roles. Histophysiology.
	14. ENDOCRINE SYSTEM part two: Thyroid gland. Adrenal gland.
	Structure in LM and EM. Roles. Histophysiology.
	PRACTICAL ACTIVITIES
Teaching	Systematic and interactive presentations, demonstrations, exercises,
methods	case reports, demonstrations of virtual histology.
Practical	Examination of the histological preparations, interpretation of
activity carried	histological images, establishing the histological diagnosis, discussing
out by students	the aspects of differential diagnosis, acquiring the knowledge and the
	practical histological skills.
Content	1. Revision: epithelia, CTs, muscle and nervous tissue.
Concent	2. Cardio-vascular system . Aorta, Artery-vein-nerve complex. H&E
	stain and special staining
	3. Hemoimmune system: hematopoietic bone marrow, spleen, lymph
	node. H&E stain and special staining
	4. Oral cavity : lips, tongue, taste bud. Skin : thin and thick skin. H&E
	stain and special staining
	5. Adult tooth : dentine and pulp. H&E stain and special staining
	6. Periodontium : gingiva, periodontal ligaments, alveolar bone
	H&E stain and special staining.
	7. Odontogenesis : early and late bell stage. H&E stain and special
	staining.
	8. Revision : oral cavity and tooth.
	9. Digestive system: salivary glands: serous and mixed salivary glands,
	liver, pancreas. H&E stain and special staining.
	10. Digestive system: Gastro-intestinal tract: esophagus, stomach,
	small intestine: duodenum, jejunum, colon. H&E stain and special
	staining. Revision
	11. Respiratory system: trachea, lung. H&E stain and special staining.

	12. Urinary system	kidney, ureter H&E stai	in and special staining.	
	13. Endocrine syste	m: pituitary gland, thyro		
	stain and special state	ning. Revision		
	14. Practical exam			
Bibliography	Mandatory			
	Mihu, Car Constantin, Medicala U ISBN 978-	men Melincovici, Bian Andrei Coneac, Io Iniversitara "Iuliu Hatie 1973-693-554-1	a Crisan, Carmen Mihaela nca Bosca, Anne Marie ana Moldovan. Editura eganu", Cluj-Napoca, 2013 ia Crisan, Carmen Mihaela	
	Mihu, Car Constantin, Editura M Napoca, 20	men Melincovici, Bian Andrei Coneac, Ioana edicala Universitara	nca Bosca, Anne Marie Moldovan, Hana Decean . "Iuliu Hatieganu", Cluj-	
	Anne-Mari Marie, Boş Şuşman Se Melincovic Andrei. Co Medicală U	e, Boşca Adina Bianca. Aca Adina Bianca, Mihu Cagiu, Şovrea Alina, Mărgi Carmen, Jianu Mihaela, ntributors: Lavinia Moca niversitaă "Iuliu Hațiega	inean Mariana, , Moldovan Ioana, Coneac n Rada Sufleţel Editura nu" Cluj-Napoca 2018	
	Bianca, Co Bianca, Co Şuşman Se Melincovic Andrei. Co	nstantin Anne-Marie. Au nstantin Anne-Marie, Mi giu, Şovrea Alina, Mărg	hu Carmen, Crişan Maria, inean Mariana, , Moldovan Ioana, Coneac n Rada Sufleţel "Iuliu	
	Optional			
	12th edition Publishing	L. Junqueira's Basic His n. Lange Medical Books; Division; 2010.	Mc. Graw-Hill Medical	
	Williams &	Wilkins. 2016.	las, 7th edition, Lipincott	
	7. Kumar G.S Edition, 20	. Orban's Oral Histology l1	and Embryology, 13 th	
	· ·	Frank M.E. Fundamenta, Wiley Blackwell, 2014	lls of Oral Histology and	
		BKB, HollandGR, Moxha nd Embryology 5th Editi	_ ·	
	10. Nanci A (e	litor).Ten Cate's Oral His	stology Development,	
T 1 4*		nd Function.9th Edition.	I	
Evaluation:	Written exam	Practical exam	Activity during the semester:	

Percent of the	60%	30%	10%
final grade:			

Institu	Institution for graduate and		Univer	rsity of Me	edicine a	and Pharn	nacy "Iuliu	ı Haţieganu"	
postgraduate studies		Cluj-Napoca							
Facult	ty			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and I	I- License	and ma	sters		
Qualit	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			12 Me	dical educ	ation			
Discip	Discipline		Modern languages						
Cours title		ROMANIAN LANGUAGE							
Responsible for lecture		-							
Responsible for practical		Assist. Prof. Ana Aşkar							
activity									
The fo	ormativ	e catego	ry of	DC					
the di	scipline	•							
Compulsory discipline		Compulsory							
X 7		hours/week		ho	urs/semes	ter		G 111	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1, 2	0	4+4	0	56+56		112	2	С

Pre-conditions (Preliminary	-
conditions)	
Requisites for lectures and practical	To respect the rules and regulations for practical
activities	activities

Professional competences	 The ability to properly employ Romanian (listening, reading, speaking, writing) in order to communicate in general contexts, both academic and medical The ability to use medical terms specific to various fields
Transversal competences	 The ability to employ prior knowledge of Romanian in medical and academic activities in order to communicate adequately in Romanian The ability to make interdisciplinary connections in the fields of study
General objectives	Development of competences in general Romanian and in academic medical language
Specific objectives	 At the end of the seminar, the learner will be capable to: introduce himself/ herself and to speak about himself/ herself ask and to offer information in familiar contexts describe a person or an object using adjectives

0 0	express preference, agreement and disagreement speak about daily activities name the parts of the human body
0	express pain speak about his/ her family

	PRACTICAL ACTIVITIES						
Teaching	Interactive teaching and multimedia support						
methods							
Practical	Specific exercises and activities (individual, in pairs or in groups)						
activity carried	aiming to develop the main competences in Romanian (speaking,						
out by students	listening, reading, and writing)						
Content	1. I am a student at the University of Medicine and Pharmacy in Cluj-						
	Napoca! Romania – general presentation (neighbours, main cities,						
	landscapes)						
	2. The alphabet. Specific sounds and sound groups. Nationalities						
	greetings and introducing oneself						
	3. The verbs <i>to be</i> and <i>to have</i> (affirmative and negative)						
	4. The time. Expressing the date and the hour. The cardinal numbers						
	5. Days of the week, months of the year, seasons. The weather forecast						
	6. Professions. Activities. Specific goals						
	7. The noun (gender, number)						
	8. Present Tense – verb groups I-IV						
	9. What are you doing this week? The weekly schedule						
	10. Frequency adverbs						
	11. Let's go to the market! Vocabulary – fruits, vegetables, dairy						
	products						
	12. The definite article						
	13. The verb <i>to like</i> (present). Quantity adverbs						
	14. Irregular verbs (present)						
	15. Means of transport. Touristic destinations. Orientation						
	16. Present tense – verb groups II-III						
	17. Prepositions and adverbs of place						
	18. What do you like to wear? Clothes						
	19. The adjective						
	20. Where do you live? The house. Objects in the house. Inside						
	orientation – prepositions						
	21. How was your holiday? The past tense simple. Expressions with the						
	past tense simple						
	22. The human body (external parts). Giving a physical and moral						
	description of a person						
	23. At the hospital. The medical and auxiliary personnel						
	24. The subjunctive mood						
	25. What do I have to do, doctor? Giving advice. Impersonal verb						
	expressions that require the subjunctive						

	26. Future tense		=			
	27. Plans for the future	_				
		<u>e</u>				
D'II' I	28. Oral examination	· · · A D· · A C	· A A 1 · A			
Bibliography	 Gogâță C., Ton Limba română Editura Universit Andreica A., Bă Româna medical Universitară "Iuli Băgiag A., And Limba română Universitară "Iuli Gogâță C., Tomo A., Limba român Medicală Univers Bejan, D. Grama 2001. Brâncuş, G. Ione pentru studenții s 1996. Dorobăț, A., Fote European, 1999. 	noiagă A., Băgiag A., Co medicală. Sinteze pentre ară Medicală, Cluj-Napoca agiag A., Coiug A., Goglă pentru nivel intermediu Hațieganu", Cluj-Napoca reica A., Tomoiagă A., în context stomatologiu Hațieganu", Cluj-Napoca agă A., Coiug A., Andrei a. Elemente de limbaj medică Elemente de limbaj medică limbii române. Ediția escu A., Saramandu M., Letrăini. Ediția IV, Ed. Univea, M. Limba română de la Limba română pentru stră	ru studenții Erasmus, a, 2018 țăță C., Tomoiagă A., liar, Editura Medicală a, 2017 Coiug A., Gogâță A., ic, Editura Medicală a, 2017 ica A., Băgiag A., Ursa dical. Nivel A2, Editura luj-Napoca, 2018 III, Cluj, Ed. Echinox, imba Română. Manual versității din București, pază. Iași, Ed. Institutul			
	9. Platon, E., Sonea, I., Vîlcu, D. Manual de limba română ca limbă					
	străină (RLS). A1-A2. Cluj-Napoca, Casa Cărții de Știință, 2012.					
	10. Pop, L. Româna cu sau fără profesor. Ediția V, Cluj-Napoca, Ed. Echinox, 2003.					
Evaluation:	Written exam Practical exam Activity during the					
			semester:			
Percent of the	33%	33%	34%			
final grade:						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	4 Prosthetics and Dental materials		
Discipline	Dental Propaedeutics and Esthetics		
Cours title	DENTAL MORPHOLOGY		
Responsible for lecture	Prof.Dr.Diana Dudea		
Responsible for practical	Lecturer Dr.Botoş Alexandra		
activity	Lecturer Dr. Alexandru Grecu		

			Assist.	Dr.Ioana	Vlas				
The formative category of		DS	DS						
the discipline									
Compulsory discipline		Compu	ılsory						
**	2	hours/week		ho	urs/semes	ster	7 5 - 1	G 11.	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Type of Assessment
1	2	2	4	28	56	66	150	6	E

Pre-conditions	Head and Neck Anatomy and Phisiology				
(Preliminary					
conditions)					
Requisites for	Attendance 70%				
lectures and	Amphitheater with projection system				
practical activities	Compulsory attendance of 100%				
	Appropriate gown - protective gown				
	Required items at the beginning of the semester				
	Completion by the student of the drawing portfolio and practical				
	modeling activities, according to the theme				
	Laboratories with facilities specific to practical activities				

Professional	Knowledge of morphology notions of permanent human teeth and			
competences	structure of odonto-periodontal unit;			
	Knowledge of the morphology of the temporary and permanent			
	dental arcades, appreciated according to the developmental periods;			
	• Getting the notions of normal dental occlusion, both at the temporary and permanent arches;			
	Acquiring general information about mandibular-maxillary reference positions: centric relationship, rest position, maximum intercuspation;			
	• Development of interdisciplinary synthesis capacity of the notions of anatomy, physiology, histology in order to know and understand the main functions of the dento-maxillary system:			
	mastication, swallowing, phonation, physiognomic function.			
	Improving the rendering capacity, through modeling, of the theoretical knowledge of morphology of teeth and dental arches;			
	Acquiring the necessary practical experience for the use of specialized instruments for the execution of dental morphology modeling steps using different materials as a substrate.			
Transversal competences	The ability to use the terminology appropriately and in the context			
	Applying the theoretical notions in the practical activity;			
	Establishing interdisciplinary correlations within the studied domains			

General	• Providing information on the morphology and normal					
objectives	functionality of teeth, dental arches, oral cavity and dento-					
	maxillary system.					
Specific	Acquiring the notions of morphology of the permanent					
objectives	human teeth and the structure of the odonto-periodontal unit.					
	Introduction of the morphology notions of temporary and					
	permanent dental arches, according to developmental periods.					
	• Acquiring of the notion of normal dental occlusion, both at					
	the temporary and permanent arches, as well as mandibular-					
	maxillary reference positions: centric relation, rest position,					
	maximum intercuspation.					
	Theoretical study of the main functions of the dento-					
	maxillary apparatus: mastication, phonation, physiomic function.					
	Detailed study of morphology of temporary and permanent					
	human teeth by: assimilation of theoretical notions, drawing of					
	the surfaces of permanent human teeth, modeling of					
	representative teeth within each dental group, direct observation					
	on extracted teeth, study of real and virtual models.					
	Model studies to analyze the characteristics of temporary					
	and permanent dental arches.					
	• Improving the ability to reproduce, through modeling, the					
	theoretical knowledge of morphology of teeth and dental arches					
	Exercise of synthesis and bibliographic documentation					

	LECTURES					
Teaching	Lecture, interactive powerpoint presentations					
methods						
Content	1. Dento-maxillary system - definition, components. Dental arches -					
	generalities, tooth notation systems.					
	2. Dental unit - general notions of tooth morphology. The crown and					
	the root from the clinical and anatomical point of view. Dental					
	surfaces, dental surface division. Common morphological features of					
	permanent teeth.					
	3. Similarities and differences in the anatomy of the teeth from the					
	frontal group. The incisors					
	4. Similarities and differences in the anatomy of the teeth from the					
	frontal group. The canines					
	5. Similarities and differences in the anatomy of the premolars.					
	6. Common and differential morphological features of teeth in the					
	posterior group. Molars					
	7. The odonton – histological components – Odontium (enamel,					
	dentin, dental pulp). Overview with clinical applications.					
	Periodontium (gingival fibromucosa, periodontal space, alveolar bone,					
	cementum). Overview with clinical applications.					
	8. Morphology of the endodontic space. Pulp cavity and pulp channels.					

	0 1 11 1 1 1 1						
	Overview with clinical applications.						
	9. Primary dental arches. Stages of evolution, Functions of temporary						
	dentition. Morphological particularities of primary teeth compared to						
	permanent teeth						
	10. Mixed Dentition. Permanent Dentition. Permanent dental arches						
	features: shape, contact areas, teeth inclination, occlusion curves.						
	11. Normal static occlusion relationship. Supporting cusps.						
	12. Mandibulo-maxillary reference positions: postural position,						
	centric relation, maximum intercuspation.						
	Mandibular movements. Classification of mandibular movements.						
	Analysis of the mandibular movements. Functions of the dento-						
	maxillary system.						
	14. Classification of the functions. Mastication. Stages of mastication.						
	Masticatory cycle. Masticatory stereotype. Masticatory efficiency. The						
	phonetic function. The Physionomic function						
Total	PRACTICAL ACTIVITIES						
Teaching	Power-Point presentations, interactive presentations, practical						
methods	demonstrations: professional movies and live demonstrations,						
-	transmitted through EduMed interactive software.						
Practical	Exercises to recognize and describe teeth on real and virtual support						
activity carried	(software dedicated to the learning of dental morphology) Exercises on						
out by students	dental drawing and carving, in different materials, methods and						
C 4 4	dimension-scales.						
Content	1. Introduction, generalities. Types of dentitions, dental arches and						
	teeth. Dental surfaces, description plane of a tooth. Carving plane of a						
	tooth Maxillary incisors. Description, design. Carving of the upper central						
	incisor, scale 2X1						
	3. Maxillary incisors. Carving of the upper central incisor- part II						
	4. Mandibular incisors- model in wax, in natural size						
	5. Canines –carving of the maxillary canine						
	6. Revision of the frontal teeth group						
	7. Maxillary premolars-carving in wax, 2X1 in size.						
	8. Mandibular premolars						
	9. Revision of premolars						
	10. Maxillary molars						
	11. Mandibular molars						
	12. Revision- molars						
	13. Occlusion						
	14. Primary teeth						
Bibliography	Dudea D. Dental Morphology- Lecture syllabus – Electronic						
	formate- 2021.						
	2. Scheid RC, Weiss G. Woelfel`s Dental Anatomy. Eight ed,						
	Wolters Kluwer (Lippicott Williams @Wilkins, Philadelphia 2012						
	3. Scheid R.C, Weiss G,- Woelfel's Dental anatomy, 9th Edition,						
	3. Scheid R.C., Weiss G Woelfel's Dental anatomy, 9th Edition,						

	Enhanced Sevent 5. Okeson J.P Mar Occlusion. 7 th ed 6. Nelson SJ, Ash N occlusion, 9th Ed 7. Nelson SJ, Ash N	elhard D.E Anatomy th edition. Mosby, St.L nagement of Temporor ition. Mosby, St. Louis M.M. Wheeler's dental lition, Philadelphia, W	mandibular Disorders and s, 2013 anatomy, Physiology and .B.Sanders, Elsevier 2010 anatomy, Physiology and					
Evaluation:	Written exam							
Percent of the final grade:	50%							

	Institution for graduate and				University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgi	postgraduate studies			Cluj-Napoca					
Facul	ty			Dental	Medicine	.			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Quali	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			4 Prost	hetics and	d Dental	materials	;	
Discip	Discipline			Dental Propedeutics and esthetics					
Cours	Cours title			MEDICAL PRACTICE					
Responsible for lecture			Lecturer Dr. Alexandra Botoş						
Responsible for practical									
activity									
The fo	ormativ	e catego	ry of	DS					
the di	the discipline								
Compulsory discipline		Compulsory							
**	G .	hours/week		ho	urs/semes	ter	m . 1	m . 1 . G . II.	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	2	0	40	0	160		160	2	C

Pre-conditions	-
(Preliminary	
conditions)	
Requisites for	Attendance is mandatory in a proportion of 100%.
lectures and	Adequate dress code – lab coat
practical activities	Filling in the summer medical practice notebook, in accordance
	with the curriculum

Professional	Medical practice activities in general medicine units
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competences	Medical practice activities in dental medicine units
Transversal competences	Ability to work in a team during therapeutic procedures
General objectives	Acquiring the knowledge of the working of general medicine units and dental medicine units
Specific objectives	 Knowledge of the working of general medicine units and dental medicine units, the patients' and dental instruments' circuits Learning and exercising the examination of patients, elaboration of the patient chart. Learning notions regarding preparation of the instruments for disinfection and sterilization and regarding instrument sterilization. Knowledge of the specific instruments used in the medical unit where the student goes for summer medical practice.

	PRACTICAL ACTIVITIES
Teaching	
methods	
Practical	
activity carried	
out by students	
Content	Common subjects
	Knowledge of the structure and functioning of the medical unit
	2. Knowledge of the medical records and documents used in the medical unit
	3. Knowing and applying the medical attributes of the nurses regarding receiving, registering and preparing the patients for the clinical examination
	4. Development of communication skills with the patient: patient history, informing and educating the patient. Development of special communication skills according to: sex, age, childhood, incurable, terminally ill or non-cooperating patient. Communicating with the patient's family.
	5. The preparation of medical instruments: washing, degreasing, syringe and needle control, sterilization, the maintenance and route of sterile materials
	6. Knowing and applying the attributes of the nurse regarding the maintenance of hygiene norms in the medical unit
	7. Elementary sterilization practices: chemical sterilization, steam sterilization, modern techniques of sterilization.
	8. Development of clinical examination skills: physical examination, palpation, auscultation, percussion and special examination techniques: (measuring blood pressure,

	t	emperatur	re, pulse)					
	Specific subjects for general medicine practice 1. Prelevation, conservation and transport of biologic products							
		(blood prelevation, pharyngeal secretion, urine, stool)						
		-	of first aid (according t					
		•	dressing, bandages, ha					
	imme	obilization	n, medical emergency					
	Specific su	bjects for	dental medicine practice					
		_	-	ents for oral examination				
	2.	_		ents for dental treatments				
	_	•	ed in the dental office					
	3.		•	nit: components, action,				
			-	ent and of the physician.				
			nfection of the dental of					
	5.		lge of the protection me in the dental office.	thods against infectious				
	6.	Basic pa	tient care procedures					
		-	wledge of notions regard	ling the dental				
				nfection and sterilization.				
Bibliography	-							
Evaluation:	Written exam							
				semester:				
Percent of the final grade:	100	⁰ / ₀						

Institu	ution fo	r gradu	ate and	Univer	sity of Me	edicine a	and Pharn	nacy "Iuliu	ı Haţieganu"	
postgi	raduate	studies		Cluj-Napoca						
Facul	ty			Dental	Medicine)				
Doma	in of st	udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	:se		I and I	I- License	and ma	sters			
Quali	fication	1		Doctor	of Denta	l Medici	ne			
Depar	tment			12 Me	dical educ	ation				
Discip	line			Sport						
Cours	title			PHYSICAL EDUCATION						
Respo	nsible	for lectu	re	-						
Respo	nsible	for pract	tical	Associ	ate Profe	ssor Ph	D Mihai	Ludovic I	Kiss	
activit	t y									
The fo	ormativ	e catego	ry of	DC						
the discipline										
Compulsory discipline			Compulsory/ optional/facultative							
**	Sem	hours	s/week	hours/semester Ty			Type of			
Year		C	LP/S	C	LP/S	SI	Total Credits	Assessment		

1	1 2	Λ	1 . 1	Λ	14 + 14		2	С
1	1, 2	U	1+1	U	14+14		2	C

Pre-conditions	Minimal motricity skills after graduating the high school
(Preliminary	
conditions)	
Requisites for	Students will not attend practical courses / activities with open mobile
lectures and	phones. Also, telephone conversations will not be tolerated during the
practical	course or practical activities, nor do students leave the gym to take
activities	personal phone calls (emergency only).
	Food and beverages are not allowed during the practical activities.
	It will not be tolerated the students' delay in the practical activities as
	it proves to be disruptive to the educational process. Students will be
	equipped according to the specificity of physical education.
	Students will display an appropriate attitude towards the teaching
	process, teaching materials, teachers and colleagues.

Professional competences Transversal competences	 Formation of future doctors, family doctors according to modern concepts regarding the optimization of the lifestyle of the population, based on the systematic practice of physical activities and exercises. Applying certain notions and skills acquired in daily activities Forming a healthy lifestyle by exercising regularly Self-development and continuous adaptation to new physical
General objectives	activities Maintaining an optimal state of health by forming the habit of systematic practice of physical exercises
Specific objectives	 Outline knowledge of the importance of training and systematic exercise of physical exercises in order to maintain optimal health. Înțelegerea şi aplicarea deprinderilor de practicare a exercițiilor fizice de menținere a sănătății în timpul liber. Formarea capacității şi obișnuinței de practicare sistematică a exercițiilor fizice ca o componentă de bază a stilului de viață favorabil sănătății ("Mens sana in corpore sano"). Knowledge of certain aspects regarding the prevention and correction of deficient attitudes and recovery of certain post-traumatic sequelae and those caused by some diseases. Knowledge of the terminology specific to the activity of physical education and certain sports. Development and cultivation of aesthetic sense and the formation of a positive attitude towards artistic activities.

PRACTICAL ACTIVITIES					
Teaching	Lecture, explanation, demonstration				
methods					
Practical					

1. General physical de	velopment						
2. Corrective and recovery physical activities (sports activities that							
, i							
	181	1					
	<u> </u>						
6. General notions abo	out ball-room dance						
7. General notions abo	out aerobic, Tabata and o	ther specific body					
trainings							
8. General notions abo	out fitness, bodybuilding						
9. General notions abo	out table tennis, badminto	on					
		n small groups					
11. Workshops – gene	ral physical training						
12. General notions ab	out chess, schi-tourism						
	garding elements of med	ical gymnastics					
		ı, Kollos Ciprian, Fotbal					
		lia, David Sergiu, Volei					
	-	D 1 . C 1					
·	, Popovici C., David S.	, Baschet – Caiet de					
	Donovici Cornelie De	na da aggistata — gaigt da					
	, ropovici Comena - Da	iis de societate – caiet de					
1 '	crări practice: Culturism	- Fitness 2013					
	•	, 2010					
Written exam	Practical exam	Activity during the					
		semester:					
-	70 %	30 %					
	2. Corrective and recorequire low physical et a. General notions about 5. General notions about 5. General notions about 6. General notions about 7. Kiss Mihai, Kollos 7. Kiss Mihai, Kollos 7. Kiss Mihai, Kollos 8. Kollos 8. Kollos 8. Kiss Mihai Ludovic 19. Kiss Mihai Ludovic 19. General notions 19. Kiss Mihai Ludovic 19. General notions 19. Kiss Mihai Ludovic 19. Kiss Mihai Ludovic 19. General notions 19. Kiss Mihai Ludovic 19. General notions 19. Kiss Mihai Ludovic 19. Kiss Mihai Ludov	2. Corrective and recovery physical activities (require low physical effort) 3. General notions about the game of basketbal and the game of volleybal and anotions about the game of football and anotions about the game of football and anotions about aerobic, Tabata and orange anotions about aerobic, Tabata and orange anotions about fitness, bodybuilding anotions about table tennis, badminto anotions about chess, schi-tourism anotions about chess, schi-tourism anotions regarding elements of med anotions regarding elements of med anotions anotions regarding elements of med anotions anotions anotions anotions anotions anotions anotions anotions anotions. A caiet de lucrări practice anotions anotice. A caiet de lucrări practice anotions anotice anotions anotice anoti					

2ND YEAR

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	1 Morphologic sciences
Discipline	Pathological anatomy

Cours title				PATHOLOGY						
Responsible for lecture			Assoc. Prof. Dr. Dan Gheban							
				Assis.	Prof. Dr.	Carme	n Georgi	u		
Responsible for practical			Teachi	ng Assist	ant Dr. A	Alexandra	Buruiană	-Simić		
activit	t y			Assista	int Dr. Bo	gdan Gl	neban			
				Assista	ınt Dr. Di	ana Gon	ciar			
				Resident of pathology, Dr. Silvia Spânu, MD, PhD						
				Resident of pathology Dr. Diana Negrutiu, MD, PhD						
				student						
The fo	ormativ	e catego	ry of	DF	DF					
the di	scipline	•	-							
Comp	ulsory	disciplin	ie	Compulsory						
	hours/week		ho	hours/semester		Type of				
Year Sem	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	
2	1	2	3	28	42	55	125	5	E	

Pre-conditions	-
(Preliminary	
conditions)	
Requisites for	Amphitheater equipped with computer/ laptop and video projector,
lectures and	whiteboard.
practical	Room for practical labs of macroscopy equipped with: computer /
activities	laptop and video projector, containers with organs with lesions kept
	in formalin, stainless steel mobile table for transporting teaching
	materials, shelves for storing containers, whiteboard.
	Autopsy room.
	Practical microscopy work room equipped with: tables, optical
	microscopes, computer / laptop, video projector, monitors, image
	transmission system, whiteboard.

Professional	To recognize, based on the notions of pathological anatomy, the
competences	main categories of pathological processes
	To recognize, based on the notions of pathological anatomy, the main lesions encountered in oral pathology
	To formulate an anatomopathological diagnosis, based on the
	theoretical and practical notions acquired
	To interpret correctly a pathological report
	To analyze and elaborate the therapeutic management of patients with oral diseases, depending on the pathological diagnosis
Transversal	• Integration of notions of pathological anatomy in the context of
competences	skills acquired in other disciplines
	Applying the notions of pathological anatomy in the specialized practical activity
	Ability to communicate pathological diagnosis to patients

General	 Concern for professional development by training critical thinking skills Involvement in research activities and in the elaboration of scientific articles Ability to use digital media for medical information Good knowledge, deepening and correct use of the notions of
objectives	general and oral pathology.
Specific objectives	 Acquisition of general knowledge on macroscopic and microscopic aspects of different categories of pathological processes (circulation disorders, metabolic disorders, inflammation, tumors, developmental disorders), knowledge necessary for understanding oral pathological processes Acquisition of knowledge of oral pathological anatomy, of local or general origin Carrying out correlations between pathological anatomy and etiology, pathogenesis, clinical manifestations, evolution and complications of lesions Exemplification of pathological processes through lesions more frequently encountered in general and dento-maxillo-oral medical practice Use this knowledge later, in order to understand the notions presented in other areas of the dental curriculum (eg, general medicine, general surgery, general anesthesia, oral medicine, oral surgery, periodontics, endodontics).

LECTURES	
Teaching methods	Lecture, systematic exposure, conversation, clinico-pathological correlations. Interactive exposure using multimedia means, PowerPoint presentations.
Content	1. FLUID AND HEMODYNAMIC DISORDERS. Hyperemia. Hemorrhage. Ischemia. Thrombosis. Embolism. Infarction. Edema.
	2. METABOLIC DISORDERS. Adaptive processes (Hypertrophy. Hyperplasia. Atrophy. Metaplasia). Cell injury and cell death. Cellular degeneration. Steatosis. Necrosis. Apoptosis.
	3. METABOLIC DISORDERS. Intracellular and extracellular accumulations. Pigments: Melanin. Hemosiderin. Bilirubin. Calcification. Lithiasis.
	4. INFLAMMATION AND HEALING General features. Acute inflammationChronic inflammation: Bacterial inflammations: Tuberculosis, Syphilis, Rhinoscleroma, Actinomycosis. Fungal inflammations: Candidiasis
	HEALING 5. TUMORS Carcinogenesis. Tumor biology. General features of benign and malignant

tumors. Tumor invasion and metastasis Epithelial tumors: benign and malignant. Benign: Papilloma, Adenoma. Malignant: Squamous carcinoma. Adenocarcinoma.

6. TUMORS

Soft tissue tumors: benign and malignant (Fibrous, muscular, adipose, fibrohistiocytic, vascular tumors). Melanocytic tumors

- **7. DENTAL PATHOLOGY.** Disorders of eruption end shedding of teeth. Hypodontia and anodontia. Hyperodontia. Microdontia and macrodontia. Disturbances of the crown and root. Mixed coronoradicular disturbances. Disturbances in the structure of teeth.
- **8. DENTAL PATHOLOGY.** Amelogenesis imperfecta. Disturbances of the teeth enamel. Internal and external discoloration of teeth. Dentinogenesis imperfecta. Dentinal dysplasia and regional odontodysplasia. Inclusions. Ankylosis, transposition and ectopia. Attrition, abrasion and erosion. Dental caries and plaque. External and internal resorbtion. Pulpitis: etiology and classifications. Reversible pulpitis. Acute irreversible pulpitis. Chronic pulpitis. Periapical granuloma.
- **9. DENTAL PATHOLOGY.** Periodontal apical cyst. Periapical abscess. Gingivitis. Gingival hyperplasia (drug-induced) and gingival fibromatosis. Adult chronic peridontitis. Early peridontitis. Periodontitis from HIV infection and Papillon-Lefevre syndrome. Lateral periodontal abscess and acute pericoronitis.
- **10. ORAL CAVITY PATHOLOGY.** Malformations of the mouth and lips. Clefts of the lips, palate, face. Malformations of the tongue. Malformations of the oral mucosa. Benign migratory glossitis.

11. ORAL CAVITY PATHOLOGY.

Catarrhal stomatitis. Serous stomatitis. Aphtous stomatitis. Purulent stomatitis and ulcero-necrotic stomatitis. Tuberculous stomatitis. Oral candidiasis. Celullitis and Ludwig's angina. Hematogenous spread of oro-facial infections. HIV infection. Pyogenic granuloma and peripheral granuloma with giant cells (epulis). Ossifying fibrous epulis and traumatic epulis. Inflammatory papillary hyperplasia and focal fibrous hyperplasia. Oro-facial granulomatosis.

12. ORAL CAVITY PATHOLOGY.

Leukoplakia and erythroplasia. Oral cavity cancer: generalities (incidence, age, sex, location, etiologic factors). Oral cavity cancer: macroscopy, microscopy, grading, staging. Oral cavity cancer: invasion, metastasis, prognostic. Clinico-pathologic forms of oral cancer

13. SALIVARY GLANDS PATHOLOGY. Salivary glands aomalies. Xerostomia. Extravasation mucoceles Retention mucoceles (salivary duct cyst) Inflammatory cystic lesions Lymphoepithelial cyst. Sialolithiasis. Sialosis (sialadenosis). Necrotising sialometaplasia Acute purulent sialadenitis Chronic sclerosing sialadenitis Epidemic parotiditis Glandular cheilitis. Myoepithelial sialadenitis Salivary

	glands tumors: generalities Pleomorphic adenoma. Warthin tumor.	
	Mucoepidermoid carcinoma. Acinic cell adenocarcinoma Adenoid	
	cystic carcinoma.	
	14. OSTEOARTICULAR PATHOLOGY. Agnatia, micrognatia and	
	macrognatia. Torus palatinus and mandibular torus. Exostosis, maxillar	
	clefts and facial hemihypertrophy. Maxillary atrophy (senile, inactivity,	
	compression). Progressive hemifacial atrophy. Osteoradionecrosis.	
	Ricketts, infantile cortical hyperostosis and cherubism. Maxillary bone	
	inflammation: generalities (etiology, infection spread, risk factors,	
	location). Acute and chronic purulent osteomyelitis. Sclerosing chronic	
	osteomyelitis. Chronic osteomyelitis with proliferative periostitis.	
	Dentigerous cyst. Odontogenic keratocyst. Nasopalatine duct cyst.	
	Solitary bone cyst and aneurysmal bone cyst. Ameloblastoma.	
	Odontoma. Condrosarcoma and osteosarcoma. Congenital anomalies of	
	mandibular condyle: aplasia, hypoplasia, hyperplasia. Traumatic	
	dislocation of temporo-mandibular joint (TMJ). Fractures of the	
	mandibular condyle and lesions of the meniscus. Trismus and	
	ankylosis. Infective arthritis of TMJ. Osteoarthritis of TMJ.	
	Rheumatoid arthritis of TMJ.	
	PRACTICAL ACTIVITIES	
Teaching	Examination of microscopic slides. PowerPoint presentations.	
methods	Examination of formalin-fixed organs with different macroscopic	
	lesions.	
	Participation at autopsies.	
Practical	Microscopic examination of histopathological slides. Making drawings	
activity carried	with the main pathological aspects of the lesions. Describing the	
out by students	macroscopy of lesions, making differential diagnosis.	
Content	1. FLUID AND HEMODYNAMIC DISORDERS	
	- Microscopy: congestion, chronic liver stasis, recent thrombus and	
	the conjunctive organization of the thrombus, cerebral purpura,	
	pulmonary infarction, acute pulmonary edema	
	- Macroscopy: congestion (cerebral, cutaneous), stasis/portal	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly,	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium,	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema.	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema. 2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND CELLULAR LESIONS	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema. 2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema. 2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND CELLULAR LESIONS - Microscopy: atrophy, hyperplasia, squamous metaplasia, fatty	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema. 2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND CELLULAR LESIONS - Microscopy: atrophy, hyperplasia, squamous metaplasia, fatty dystrophy of the liver, coagulation necrosis, steatonecrosis	
	hypertension (liver cirrhosis-collateral circulation, splenomegaly, ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma (subdural, cerebral, hepatic), hemothorax, hemopericardium, thrombosis, thrombembolism, white infarction (renal, cardiac), red infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute pulmonary edema, Quincke's edema, limphedema. 2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND CELLULAR LESIONS - Microscopy: atrophy, hyperplasia, squamous metaplasia, fatty dystrophy of the liver, coagulation necrosis, steatonecrosis - Macroscopy: atrophy (cashexia, hydrocephalus, hidronephrosis),	

3. METABOLIC DISORDERS: CELLULAR ACCUMULATIONS

- **Microscopy:** hyper/para/diskeratosis, amyloidosis, cholesterolosis, lipofuscin, cardiosclerosis, melanin deposits, hemocromatosis.
- **Macroscopy:** hepatic cirrhosis, keloid, hairy leucoplakia, renal, cardiac and splenic amyloidosis, lithiasis, hypermelanoses, jaundice.

4. ACUTE INFLAMMATION AND HEALING

- **Microscopy:** vesicles, pustules, fibrinous pericarditis, lobar pneumonia, myocardial abscess, granulation tissue, purulent meningitis.
- Macroscopy: hydrothorax, herpes, lobar pneumonia, bronchopneumonia, purulent peritonitis, pseudomembranous colitis, recent abscesses, hemorrhagic cystitis.

5. CHRONIC INFLAMMATION

- Microscopy: Bacterial inflammations: Tuberculosis, Syphilis, Rhinoscleroma, Actinomycosis. Fungal inflammations: Candidiasis. Foreign body granuloma.
- **Macroscopy:** primary tuberculosis, military tuberculosis, syphilis, chancre, Hutchinson's teeth, rhinoscleroma, actinomycosis, candidiasis.

6. TUMORS

- Microscopy and macroscopy: squamous cell carcinoma, basal cell carcinoma, adenoma, adenocarcinoma, hemangioma, leiomyoma, fibrosarcoma, naevi, chondrosarcoma, melanoma, adenomatous polyps.

7. DENTAL PATHOLOGY

- **Microscopy** and **macroscopy**: Disorders of eruption end shedding of teeth. Hypodontia and anodontia. Hyperodontia.

Microdontia and macrodontia. Disturbances of the crown and root. Mixed corono-radicular disturbances. Disturbances in the structure of teeth.

8. DENTAL PATHOLOGY

- Microscopy and macroscopy: Amelogenesis imperfecta.
Disturbances of the teeth enamel. Dentinogenesis imperfecta.
Dentinal dysplasia and regional odontodysplasia. Inclusions.
Ankylosis, transposition and ectopia. Attrition, abrasion and erosion.
Dental caries and plaque. External and internal resorbtion. Reversible pulpitis. Acute irreversible pulpitis.
Chronic pulpitis. Periapical granuloma.

9. DENTAL PATHOLOGY

- Microscopy and macroscopy: Periodontal apical cyst.
Periapical abscess. Gingivitis. Gingival hyperplasia (drug-induced) and gingival fibromatosis. Adult chronic peridontitis.
Early periodontitis. Periodontitis from HIV infection and Papillon-Lefevre syndrome. Lateral periodontal abscess and acute pericoronitis.

10. ORAL CAVITY PATHOLOGY

- Macroscopy: Malformations of the mouth and lips. Clefts of the lips, palate, face. Malformations of the tongue. Malformations of the oral mucosa. Benign migratory glossitis.

- Macroscopy and microscopy: Catarrhal stomatitis. Serous stomatitis. Aphtous stomatitis. Purulent stomatitis and ulcero-necrotic stomatitis. Tuberculous stomatitis. Oral candidiasis.

Celullitis and Ludwig's angina.

11. ORAL CAVITY PATHOLOGY

- Microscopy and macroscopy: Pyogenic granuloma and peripheral granuloma with giant cells (epulis). Ossifying fibrous epulis and traumatic epulis. Inflammatory papillary hyperplasia and focal fibrous hyperplasia. Oro-facial granulomatosis Leukoplakia and erythroplasia. Forms of oral cancer

12. SALIVARY GLAND PATHOLOGY

- Microscopy and macroscopy: Salivary glands anomalies. Xerostomia.) Inflammatory cystic lesions. Lymphoepithelial cyst. Sialolithiasis. Sialosis (sialadenosis).

Necrotising sialometaplasia Acute purulent sialadenitis Chronic sclerosing sialadenitis Epidemic parotiditis Glandular cheilitis.Myoepithelial sialadenitis.Pleomorphic adenoma. Warthin tumor. Mucoepidermoid carcinoma. Acinic cell adenocarcinoma Adenoid cystic carcinoma.

13. OSTEOARTICULAR PATHOLOGY

- Microscopy and macroscopy: Agnatia, micrognatia and macrognatia. Torus palatinus and mandibular torus. Exostosis, maxillar clefts and facial hemihypertrophy. Maxillary atrophy (senile, inactivity, compression). Progressive hemifacial atrophy. Osteoradionecrosis. Ricketts, infantile cortical hyperostosis and cherubism. Acute and chronic purulent osteomyelitis. Sclerosing chronic osteomyelitis. Chronic osteomyelitis with proliferative periostitis. Dentigerous cyst. Odontogenic keratocyst. Nasopalatine duct cyst. Solitary bone cyst and aneurysmal bone cyst. Ameloblastoma. Odontoma. Condrosarcoma and osteosarcoma. Congenital anomalies of mandibular condyle: aplasia, hypoplasia, hyperplasia. Traumatic dislocation of temporo-mandibular joint (TMJ). Fractures of the mandibular condyle and lesions of the meniscus. Trismus and ankylosis. Infective arthritis of TMJ. Osteoarthritis of TMJ. Rheumatoid arthritis of TMJ.

14. REVISION

Revision of the notions presented in the practical sessions during the semester

Bibliography

- 1. The handout of the discipline actualised yearly
- 2. The presentations with images (powerpoint, pdf) elaborated by the discipline of Pathology
- 3. Edward W Odell, Cawson's Essentials of Oral Pathology and Oral Medicine, 2017
- 4. Robbins Pathologic Basis of Disease, 10th ed. Cotran, Kumar, and Collins, 2019
- 5. http://www.pathologyoutlines.com/

	6. http://library.med.utah.edu/WebPath/webpath.html 7. http://alf3.urz.unibas.ch/pathopic/intro.htm					
Evaluation:	Written exam	Written exam Practical exam Activity during the semester:				
Percent of the final grade:	80 %	20 %	-			

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgi	postgraduate studies				Cluj-Napoca				
Facult	ty			Dental	Dental Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and I	I- License	and ma	sters		
Qualit	fication	l		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Oral	Rehabilit	ation			
Discip	Discipline			Oral Health					
Cours	Cours title			ETHICS AND INTEGRITY IN ACADEMIA					
Respo	Responsible for lecture			Assoc. Prof. Maria Aluaș					
Responsible for practical			-						
activit	t y								
The fo	ormativ	e catego	ry of	DC					
the di	scipline)							
Comp	Compulsory discipline		Compulsory						
* 7	hours/week		hours/semester T - 1 G - 1		Type of				
Year	Sem	Sem C LP/S C LP/S SI	SI	Total	Credits	Assessment			
2	1	1	0	14	0	36	50	2	V

Pre-conditions	Adequate level of understanding, conversation, speaking, and
(Preliminary	writing in English
conditions)	
Requisites for	Students will keep them off GSM. During the course, phone calls are
lectures and	not allowed. Students cannot leave the amphitheater to the reason of
practical	personal phone calls.
activities	It is not allowed to eat during class sessions consumption of food
	and drinks is prohibited.
	Students must respect timetables; the late arrival to activities is
	prohibited, as this will disturb the working sessions.

Professional competences	•	Being able to use correctly, in the appropriate context, the specific terminolog
	•	Being able to frame ethical and integrity issues in the medical and health context
	•	Identify the negative consequences that can raise from the misconduct and misbehavior practices

	Being able to use efficient sources of information and distinguish official information other information found on the internet
Transversal competences	 Having the ability to use the concepts learned in new contexts. To optimize creatively their potential in the scientific and research activities in which they are involved. To have the ability to identify the consequences of the presented topics in personal and professional life. To show concern for identifying solutions and arguments in favor of proposed solutions. To justify the decisions, they would make in such situations. Demonstrate the ability to use digital media and reference documents for information purposes to solve ethical and academic integrity issues.
General objectives	At the end of the semester, students will acquire skills that make them able to identify and contextualize an ethical and integrity issue and, to be aware about consequences of such practices for the profession of dentist and researcher.
Specific objectives	 At the end of the semester, students will be able to: Distinguish between describe and evaluate a concrete situation and delineate the ethical and integrity issues from other types of frauds. To problematize and analyze the presented cases and situations. Identify solutions or possibilities to avoid such situations.

	LECTURES					
Teaching	Exhibition of knowledge according to the proposed themes,					
methods	stimulating interactivity; illustration by clinical cases;					
	use of multimedia.					
	Oral presentation (lecture), with multimedia support (Powerpoint,					
	doubled images / movies)					
Content	1. Introductory course. Conceptual definitions and boundaries: What					
	does ethics and academic integrity mean?					
	2. The causes and cases that led to the emergence of this new					
	discipline: Jon Studbo, Eric Poehlman, Andrew Wakelfied.					
	3. Forms of facts that can be classified as misconduct in the academic					
	environment: data falsification, fabrication, plagiarism, other frauds					
	4. Data fabrication: causes and consequences					
	5. Data falsification: causes and consequences					
	6. Plagiarism: causes and consequences					
	7. Conflict of interests: definition, causes, consequences					
	8. Data protection. The concept of privacy and confidentiality					
	9. Intellectual property rights: copyright and patents					
	10. Legal regulations regarding Misconduct practices					
	11. European Code of Research Integrity					
	12. Sanctions applied to acts of misconduct: academic, disciplinary,					

	legal sanctions						
		on, methodological skil	ls change of policies				
	14. Science and profes		is, change of poneres				
Bibliography		ademies, The European	Code of Conduct for				
gj		y. Revised Edition, Ber					
	_	Good Science Plarform					
	_	cience/wiki/Main_Page					
	2	016). Documents and Re					
		eu/documents-results/. A					
			duct of Research, 3rd ed.				
	Oxford Universit	_					
	5. PateJ. New COPI	E guidelines on publica	tion process manipulation:				
			Peer Review2018;3:13.				
	Doi: 10.1186/s41	073-018-0059-xNogue	ira TE, Gonçalves AS,				
	Leles CR,						
	6. Batista AC, Costa	a LR. A survey of retrac	cted articles in				
	dentistry.BMC R	es Notes. 2017 Jul 6;10	(1):253. doi:				
	10.1186/s13104-	017-2576-у					
	7. Faggion CM Jr, V	Ware RS, Bakas N, Was	siak J.An analysis of				
			2018 Dec;79:19-23. doi:				
	10.1016/j.jdent.2						
	8. Steen, R. G. (2011). Retractions in the scientific literature:						
		perately commit resear	ch fraud? Journal of				
	Medical Ethics, 3						
		nel Finds 'Misbehavior'					
	_	Faults Cloning Co-Aut	hor, By NICHOLAS				
	WADE 10. Nogueira TE, Gonçalves AS, Leles CR, Batista AC, Costa LR. A						
	_	3					
	survey of retracted articles in dentistry.BMC Res Notes. 2017 Jul 6;10(1):253. doi: 10.1186/s13104-017-2576-y						
			_				
			ion E Broome. Scientific				
		the perspective of research					
	_	Med Ethics 2007;33:3	65–369. doi:				
	10.1136/jme.2006.016394 12. Sorana D. Bolboacă, Diana-Victoria Buhai, Maria Aluaș, Adriana E. Bulboacă, Post retraction citations among manuscripts reporting						
	a radiology-imaging diagnostic method. PLoS ONE 14 (6), 2019 13. Sorin Hostiuc, Oana Isailă, Maria Aluaș, Authorship Criteria for						
			iltural Management and				
	Ethics", Nr. 2/20		murai management and				
Evaluation:	Written exam	Practical exam	Activity during the				
L'uluuloii.	VVIIII CAUIII	Tructicui Caulii	semester:				
Percent of the	70%	0%	30%				
final grade:							
man Brance	I .	<u> </u>	l				

Institution for graduate and University of Medicine and Pharmacy "Iuliu Haţieg
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postgraduate studies			Cluj-Napoca							
Faculty			Dental Medicine							
Doma	in of st	udy		Health	Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	:se		I and I	I- License	and ma	sters			
Qualit	fication	1		Doctor	of Denta	l Medici	ne			
Depar	tment			2 Func	tional scie	ences				
Discip	line			Physio	pathology	I				
Cours	Cours title			PHYSIOPATHOLOGY						
Responsible for lecture			Assist. Prof. Dr. Camelia Manuela Mîrza							
Responsible for practical		Assist. Prof. Dr. Camelia Manuela Mîrza								
activity										
The fo	rmativ	e catego	ry of	DF						
the di	the discipline									
Compulsory discipline		Compulsory								
3.7	a	hours	hours/week		hours/semester		m . 1	~	Type of	
Year	r Sem	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1	2	2	28	28	69	125	5	Е	

Pre-conditions	-
(Preliminary	
conditions)	
Requisites for	Mandatory presence at 70% of the courses
lectures and	Delay of students to the course will not be tolerated
practical activities	Mandatory presence at 100% of practical laboratories
	Delay of students to practical laboratories will not be tolerated
	Each student must complete the individual portfolio of activity
	with 14 laboratories

Professional	• To analyze the data and select the necessary tests for the diagnosis
competences	of patients with oro-maxillofacial and general disorders
	• To be able to interpret the results of the evaluation tests of patients
	with oro-maxillofacial and general disorders
	• To create the pathophysiological map of patients with oro-
	maxillofacial and general disorders
Transversal	To acquire the ability to use digital media for medical information
competences	To acquire the ability to present complex topics
	• To demonstrate the involvement in the research projects of the
	Pathophysiology Discipline
General	• At the end of the semester the students will be able to correctly
objectives	complete the pathophysiological map of the patients with oro-
	maxillofacial and general disorders
Specific	• Identification of the basic pathophysiological mechanisms of patients
objectives	with oro-maxillofacial and general disorders

Development of a plan for the evaluation of patients with oromaxillofacial and general disorders based on the pathophysiological mechanisms
Correct interpretation of the tests to evaluate the pathophysiological mechanisms of patients with oro-maxillofacial and general disorders

	LECTURES						
Teaching	Lecture, systematic presentation, conversation						
methods	Oral and PowerPoint presentations						
Content	1. Fundamentals theories: disease, cell pathophysiology						
	2. The inflammatory response pathophysiology. The thermoregulatory pathophysiology						
	3. The metabolisms disorders pathophysiology						
	4. The haemostasis disorders pathophysiology						
	5. The red blood cells disorders pathophysiology						
	6. The cardiovascular disorders pathophysiology						
	7. The respiratory disorders pathophysiology						
	8. The digestive tract pathophysiology						
	9. The oral cavity pathophysiology						
	10. The renal pathophysiology						
	11. The endocrine pathophysiology						
	12. The phosphorus and calcium pathophysiology						
	13. The pain pathophysiology						
	14. The pathophysiology of oral manifestation in systemic diseases						
	PRACTICAL ACTIVITIES						
Teaching	Oral and PowerPoint presentations, experimental demonstrations,						
methods	clinical scenarios presentations						
Practical	Interpretation clinical scenarios, interpretation of analysis reports,						
activity carried	laboratory parameters evaluation						
out by students							
Content	1. Introduction in experimental pathophysiology						
	2. The response of organism of physical and chemical etiological						
	factors 2. Inflammation discussed in an axis						
	Inflammatory diseases diagnosis Metabolisms disorders diagnosis						
	5. Haemostasis disorders diagnosis						
	6. Red Blood Cells disorders diagnosis						
	7. Cardiovascular disorders diagnosis						
	8. Respiratory disorders diagnosis						
	9. Digestive tract disorders diagnosis						
	10. Oral cavity disorders diagnosis						
	11. Renal disorders diagnosis						
	12. Endocrine disorders diagnosis						
	13. Nervous system disorders diagnosis						
	15. 1101 rous system disorders diagnosis						

	14. PBL						
Bibliography	1. Current Pathophysi	iology Lecture					
Dionography		D, Sue E., McCance I	RN PhD Kathryn I				
		physiology. Mosby, Nov 1					
		a Mirza, Alina Elena					
		daru, Florinela Adriana C					
	· ·	idra Orasan, Iulia Ioana	-				
		npia Pfingstgraf, Paul Mil					
	3.	1 0 0 7	· · · · · · · · · · · · · · · · · · ·				
	Irina Bonci, Elisabeta Ioana Chera - Laboratory Study Guide For General And Oro-Maxillo-Facial Pathophysiology. Editura Medicală						
	Universitară "Iuliu Ha		logy. Lantara Medicala				
		n Summer And Michael	Levitzky Pulmonary				
		Clinical Approach, 8th Ed					
	Book, Mcgraw-Hill N		intion, Lange Medical				
	_	Moss Paul, Essential Haen	natology Wiley-				
	Blackwell; 8 Ed., 201		natology, whicy-				
		PhD, Kathryn L., Hueth	er RN PhD Sue F				
		ne Biologic Basis for D					
	Children. Mosby Feb		riscuse in riddits and				
		L, Lalchandani Rupa.Po	orth's Pathonhysiology				
		Health States. LWW Nov 3	1 2 62				
	8. Gary Hammer, Stephen McPhee. Pathophysiology of Disease: An Introduction to Clinical Medicine 8E 8th Edition, 2018.						
	9. Camelia Manuela Mîrza, Alina Elena Pârvu, Adriana Elena						
		lidaru, Carmen Angela					
	1	ziopatologie pentru medic	_				
	Medicală Universitară "Iuliu Hațieganu", 2018.						
	10. West John B., Pulmonary Pathophysiology: The Essentials						
	Lippincott Williams & Wilkins; 10 th Ed., 2017.						
		nklin, aster jon c., PATHO	PHYSIOLOGY OF				
		ERS, LANGE MEDICAI					
		nill medical, 2 ND ED., 2016					
	12. J. Gill J. DEN	TAL CARIES: THE DIS	SEASE AND ITS				
	CLINICAL MANA	GEMENT, THIRD EDI	TION. British dental				
		journal , 2016.					
	13. SILBERNAGL STEFAN, LANG FLORIAN, COLOR ATLAS						
		OPHYSIOLOGY, THIE					
		na, Parvu Alina Elena, l	Pathophysiology For				
		ninox, Cluj Napoca, 2009.	· · · · · · · · · · · · · · · · · · ·				
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	60%	30%	10%				
final grade:							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Facult	Faculty		Dental Medicine						
Domain of study			Health						
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	:se		I and I	I- License	and ma	sters		
Qualif	fication	1		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Mole	cular scie	ences			
Discip	line			Medica	al genetic	S			
Cours	title			GENETICS					
Respo	Responsible for lecture		Lecturer Dr.Catana Andreea						
Respo	Responsible for practical		Lecturer Dr. Catana Andreea						
activit	activity								
The fo	ormativ	e catego	ry of	DD					
the di	scipline	9							
Comp	Compulsory discipline		Compulsory						
37	G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ho	urs/semes	ter	TD 4.1	G 11.	Type of	
Year	Sem		Credits	Assessment					
2	1	1	1	14	14	22	50	2	Е

Pre-conditions	-
(Preliminary	
conditions)	
Requisites for	Amphitheatre with visual projection system and Internet acces.
lectures and practical	Practical activities in designated student classrooms with video
activities	projection system and Internet access.
	Cytogenetic and molecular genetics laboratories

Professional competences	• The practice of medicine is changing as clinical applications based on genetic technologies continue to emerge as a result of the Human Genome Project. Physicians are addressing patients' questions about familial diseases, assessing the appropriateness of genetic testing, facilitating informed decision making, and promoting preventative health measures. This personalized approach to patient care allows physicians to focus on prevention and earlier diagnosis. Targeted therapies are beginning to provide a more effective and efficient method to treatment. For genomic medicine to reach its full potential, health care providers need a sound genetics knowledge base and practical skills to clinically apply this knowledge in a competent and responsible way.	
Transversal competences	 Many common diseases are not inherited as a single gene defect but instead result from gene-environment interactions. No gene to date has been identified that has as large an impact on periodontal disease as do environmental influences, such as smoking or diabetes. A predictive test for dental caries or for periodontal disease does not 	

	 currently exist; both of these are complex diseases with multiple genetic and environmental risk factors. While genetic testing holds potential for clinical application in the future, clinical measurements remain the best approach for assessment of caries and periodontal disease at this time.
General objectives	 Understanding fundamental genetics necessary for clinical practice Understanding the laws of heredity and variability in normal and
	 pathological dental-maxillofacial development Understanding basic elements of genetic pathology useful and necessary in medical practice
Specific objectives	 Understanding the basic concepts of genetics and the mechanisms underlying the transmission of normal and pathological traits Understanding the mechanisms underlying the various chromosomal or monogenic syndromes affecting the craniofacial region and those involved in congenital dental-maxillofacial anomalies
	Understanding and applying elements of diagnosis, genetic counseling and prevention of genetic diseases, particularly for dental-maxillofacial pathology

	LECTURES					
Teaching	Oral presentations, systematic, interactive presentation (PPT					
methods	support)					
Content	1. Introduction in Human Genetics. The Human genome					
	2. The structure and function of the gene					
	3. Transmission of Hereditary information Autosomal dominant and					
	recessive patterns of inheritance					
	4. Transmission of Hereditary information Gonosomal dominant and					
	recessive patterns of inheritance					
	5. The variability of genetic information. Mutations. Genotype to					
	phenotype associations					
	6. Chromosome anomalies. Aneuploidies.					
	7. Chromosome anomalies. Structural anomalies					
	8. Mitochondrial heredity.					
	9. Developmental genetics. Fundamental notes.					
	10. Developmental genetics. Genes involved in development.					
	11. Developmental genetics. Syndromes and phenotypes associated					
	with mutations in developmental genes.					
	12. Congenital anomalies. Etiology. Fundamental notes. Classifications					
	and etiology.					
	13. Congenital anomalies. Teratology, teratogens.					
	14. Prophylaxis and screening for genetic disorders. Principles of					
	prophylaxis and screening in medical genetics.					
	PRACTICAL ACTIVITIES					
Teaching	Oral presentations, interactive methods and Case Report analysis (PPT					

methods	support)						
Practical	Interpretation of chromosome and molecular analysis in context of oral						
activity carried	health disorders.		-				
out by students	Genetic counseling in	genetic disorders related	to inheritable oro-facial				
	and dental disorders.						
	Case presentation						
Content		osomal morphology, inte					
		es, criteria for classification	on of human				
		chromosomes, chromosomal heteromorphisms					
	2. Indications for pren						
	3. Indications for post-	-natal genetic diagnosis					
	4. Chromosome disord	ders. Trisomy 21					
	5. Chromosome disord	ders. Trisomy 18 and 13.					
	6. Heterosomal aneupl						
	7. Genetic counseling.						
		7. Patterns of inheritance					
		opmental disorders Crania					
		nt of dental anomalies. An					
		nt of dental anomalies. An					
	12. Dental dystrophies. Amelogenesis imperfecta						
	13. Dental dystrophies. Dentinogenesis imperfecta						
	14. Knowledge assessment, evaluation and consolidation.						
Bibliography		la. Curs pentru student					
		or Univ. Dr. Ioan V					
	universitara "Iuliu Hatieganu", Cluj-Napoca, 2013 (English version)						
	2. Genetica medicala. Indrumator de lucrari pentru studentii anului II						
	•	oordonator Profesor Univ	<u> </u>				
		ı "Iuliu Hatieganu", Cluj	-Napoca, 2012 (English				
	version)		0.1 11.1 15.1				
		mpson Genetics in Medi					
		McInnes Huntington Will	ard, Elsevier, 2015				
	4. www.orphanet.com	n					
	5. www.omim.com						
	6. www.pharmgkb.co 7. www.ensembl.org)111					
Evaluation:	Written exam	Practical exam	Activity during the				
Evaluation.	WITHUEII EXAIII	i i acucai exaiii	semester:				
Percent of the	66,66%	33,33%	=				
final grade:	00,0070	22,30 / 0					
imai gi auc.	<u> </u>						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English

Level	Level of course			I and II- License and masters					
Qualification			Doctor of Dental Medicine						
Depar	tment			4 Prost	hetics and	d Dental	materials	3	
Discip	line			Dental	materials	, Ergono	omics		
Cours	title			DENT	AL MAT	ERIAL	S		
Respo	nsible i	for lectu	re	Assoc.	Prof. 10	Vacant			
Respo	nsible i	for pract	tical	Lecture	Lecturer Dr. Adriana Objelean				
activit	\mathbf{y}			Lecturer Dr. Andrada Voina					
	<u> </u>			As 57 Vacant					
The fo	rmativ	e catego	ry of	DS	DS				
the di	scipline	•							
Comp	Compulsory discipline			Compu	ılsory				
	hours/week		hours/semester			~ "	Type of		
Year	Year Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	1	3	14	42	94	150	6	E

Pre-conditions High school elementary knowledge of organic and inorgan			
(Preliminary	chemistry and physics. Elementary knowledge of biochemistry		
conditions)	and teeth morphology.		
Requisites for lectures Video projection amphitheater			
and practical activities	Laboratories with specific practical activity equipment		

Professional	Ability to adequately use the specialty terminology				
competences	• Interdisciplinary synthesis capacity development of organic and				
	inorganic chemistry, physics, and biochemistry to comprehend and				
	knowledge the general properties of dental materials				
	Knowledge regarding general principles of adhesion				
	Assimilation of the available information regarding properties and				
	handling of impression materials				
	Knowledge regarding: metals and alloys				
	• Required practical experience acquisition to handle different types of				
	impression materials				
Transversal	Use of assimilated information in new contexts				
competences	Application of theoretical concepts in the practical activity				
	Interdisciplinary correlations within the study domains				
General	Knowledge of fundamental concepts of composition, properties, and				
objectives	indications for the use of restorative dental materials, focusing on				
	practical applications				
Specific	Acquire basic knowledge about the composition, properties, and				
objectives	indications for the use of dental materials, with an emphasis on				
	practical applications				
	Detailed study of the preparation and manipulation of dental				
	materials used directly by the dentist in the dental office				

•	Acquire basic knowledge in the formulation and use of dental science.	
•	The theoretical and logical algorithm of choice of the most suitable material for a particular clinical situation	
•	Capacity execution and bibliographic documentation summary	

	LECTURES			
Teaching	Lecture, systematic, interactive courses.			
methods	Oral presentation, PowerPoint presentation			
Content	1. Classification of dental materials. Properties of dental materials			
	during storage, mixing, during and after setting reaction			
	2. Classification of dental materials. Properties of dental materials			
	during storage, mixing, during and after setting reaction			
	3. Classification of dental materials. Properties of dental materials			
	during storage, mixing, during and after setting reaction			
	4. Biocompatibility of dental materials.			
	5. Principles of adhesion in dentistry			
	6. Impression materials: imposed conditions of a rigid impression			
	material, classification, properties, and indications.			
	7. Impression materials: imposed conditions of an elastic impression			
	material, classification, properties, and indications.			
	8. Impression materials: imposed conditions of an elastic impression			
	material, classification, properties, and indications.			
	9. Immediate and delayed errors and mistakes of impression materials			
	10. Disinfection protocols and techniques for impression materials			
	11. Metals and dental alloys: terminology, presentation forms,			
	classification, structure and thermal behavior.			
	12. Noble and non-noble dental alloys. Titanium.			
	13. Corrosion of dental alloys			
	14. Review for assimilated notions and knowledge			
	PRACTICAL ACTIVITIES			
Teaching	Interactive discussions and practical demonstrations			
methods				
Practical	Performing different methods and techniques for handling impression			
activity carried	materials and interactive discussions about practical applications of the			
out by students	dental materials' properties in clinical cases.			
Content	1. Classification of dental materials.			
	2. Mechanical properties-stress-strain relation.			
	3. Teeth color choice using the shade guide.			
	4. Chemical properties-solubility.			
	5. General rules of handling the dental materials.			
	6. Rigid impression materials.			
	7. Elastic reversible impression materials.			
	8. Irreversible elastic impression materials-hydrocolloids-alginate and			
	alginate substitute materials			

	0 Irravarcible alactic i	mpression materials – e	lactomers 2 step with	
	spacer impression tech		lastomers - 2-step with	
	<u> </u>	impression materials –	elastomers- 2-sten	
	without spacer impres		clustomers 2 step	
		impression materials –	elastomers- 1-step	
	impression technique			
		impression materials – l	MONOPHASE	
	elastomers	1		
	13. Dental metallic all	oys-phase diagrams.		
	14. Practical examinat			
Bibliography			Craig's restorative dental	
		ed.Elsevier Mosby 2018		
			ne F. Esquivel-Upshaw.	
	Phillips' Science of Dental Materials, 13th Edition, ed.Elsevier			
	Mosby 2021			
			d Science of Operative	
	Dentistry, 7th Ed	· · · · · · · · · · · · · · · · · · ·		
	-		d. Contemporary Fixed	
	-	th Edition, Ed Elsevier, A		
	5. Richard Van Noort. Introduction to Dental Materials, 4th Edition. ed Elsevier, 2013			
	6. W. Stephen Eakle, Kimberly G. Bastin. Dental Materials, Clinical			
	Applications for Dental Assistants and Dental Hygienists, 4th			
	Edition. Ed. Elsevier 2020			
	7. Nicola C și colab. – Materiale dentare – Considerații clinice și			
	tehnologice. Ed. Casa Cărții de Știință, Cluj-Napoca, 2009.			
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the	33%	33%	33%	
final grade:				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	3 Molecular sciences		
Discipline	Microbiology		
Cours title	MICROBIOLOGY		
Responsible for lecture	Assoc. Prof. Dr. Carmen COSTACHE, MD, PhD		
Responsible for practical	Assist. Dr. Mădălina Bordea		
activity	Assist. Dr. Alina Baciu		
	Assist. Dr. Răzvan Opris		

The fo	The formative category of			DF					
the discipline									
Compulsory discipline		Compu	ılsory						
* 7			hours/week		hours/semester		TD . 1	a 11	Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Type of Assessment
2	1	1	2	14	28	33	75	3	Е

Pre-conditions (Preliminary conditions)	Basic biology Working with the light microscope
Requisites for	Respecting the academic rules for the participation to lectures
lectures and practical	Respecting the rules for a microbiology laboratory (wearing a
activities	white robe, protective gloves when necessary, etc.)

Professional competences	 Involvement in educating the population on the impact of microorganisms (including human microbiocenosis) on health Knowledge about microorganisms: bacteria, viruses, parasites and fungi producing human pathology particularly in oral cavity and sinuses. Knowledge of medical terminology Understand the relationship between microorganisms and the human body, ways of transmission and production of infectious diseases to participate in prevention of pathology associated with dental practice Understand and apply the necessary measures to prevent nosocomial infections 		
Transversal	Developing complex professional tasks		
competences	 Identify objectives to be achieved, the resources available, the conditions for completion of their work progress, working time, deadlines and risks related to the execution of professional duties. Identify roles and responsibilities in a multidisciplinary team of networking and application techniques. Effective work and longitudinal feedback within a team. Effective use of information sources and communication resources (Internet portals, specialized software applications, databases, online courses etc.) to ensure continuous personal and professional development 		
General	Acquiring the basics of medical microbiology		
objectives	 Study of the microorganisms (bacteria, viruses, parasites, fungi). Knowledge and correct use of microbiology concepts related to contamination with infectious agents and their transmission to humans to initiate an infectious process. The importance of microorganisms as etiologic agents of various infectious clinical entities: respiratory tract infections, genitourinary tract infections, skin and CNS infections (meningitis, encephalitis). 		

	Knowledge of the bacterial, viral, parasitic and fungal virulence factors to understand their role in human pathology.	
Specific objectives	• Acquisition of theoretical and practical knowledge on infectious agents and their possibilities of human contamination.	
	• Knowledge of an infectious process and how it is diagnosed. Interpretation of microbiological analysis bulletins.	
	• Preparing students to perform minimum laboratory techniques needed for a medical dentist.	
	• Understand the reasons and mechanisms underlying the choice of a particular protocol work.	
	• Familiarization with the directions of research in microbiolog	
	Exercise synthesis and bibliographic documentation capacity.	

	LECTURES				
Teaching	Lectures, systematic exposure, conversation				
methods	Oral exposure coupled with PPT				
Content	1. Microorganisms world: definition, properties.				
	2. Classification of medical important bacteria (phylogenetic, biohazard				
	groups)				
	3. Bacterial morphology and function.				
	4. Importance of morphology for differentiation and identification of				
	the bacteria.				
	5. Bacterial metabolism: effect of environmental factors on bacteria,				
	development curve.				
	6. Bacteria nutritional and energetic requirements				
	7. Bacterial genetics (evolution and adaptation in the bacterial world).				
	8. Microbial world and the human host. Normal flora and microbiota.				
	Commensalism, Opportunism, Pathogenicity.				
	9. Infection and pathogenicity; determinants of pathogenicity.				
	10. Exotoxins and endotoxins, adhesion factors. Examples from oral				
	pathology.				
	11. Main bacteria producing human disease				
	12. Defense mechanisms against microbial infections				
	13. The microbiology of antibacterial chemotherapy. Definition,				
	Antibacterial spectrum, resistance phenotype, S I R concept. Antibiotic				
	families, mechanisms of action.				
	14. Spreading of antibiotic resistance and pathogenic genes in the				
	bacterial world. Natural/chromosomal resistance. Acquired resistance.				
	Multiple resistance, selection of hospital strains.				
	PRACTICAL ACTIVITIES				
Teaching	Conversation, demonstration, performing				
methods					
Practical	Sterilization methods				
activity carried	Collection of pharyngeal swab				
out by students	Gram stained smear				

	Tu1-41	1! -		
	Inoculation of culture media TPHA/other antigen-antibody technique			
	_	• •		
	Disk diffusion suscep			
~	Interpretation of laboratory assays			
Content	1. Sterilization and disinfection			
	2. Sample collection.			
	1 1 1	ation (wet smear, stained	l smear): principles,	
	techniques, information) Stainings: Gram			
	_	elsen (principle, techniqu	ies), special stainings	
	(enumeration-example	•		
	-	nition, classification, exa	•	
	•	haracteristics used in ide		
	6. Laboratory diagnos	tic scheme for the infect	ion disease	
	7. Antigen antibody re	eaction (principles, exam	ples, interpretation)	
		pility testing and interpre		
	9. Infections produced	l by Gram positive cocci	(streptococci,	
	staphylococci) – labor	atory diagnosis		
	10. Infections produce	ed by Gram negative coc	ci and cocobacilli	
	(Neisseria, Haemophy	lus, Bordetella)		
	11. Infections produce	ed by Gram positive baci	lli (Bacillus, Clostridium)	
	and Mycobacterium			
	12. Infections produced by Gram negative bacilli (enterics,			
	Pseudomonas, H.pylo	ri)		
	13. Infections produce	ed by spirochetes		
	14. Practical examinat	ion		
Bibliography	1.George F. Brooks	s, Janet S. Butel, Stepl	nen A. Morse, Joseph L.	
	Melnick, Ernest	Jawetz, Edward A. A	delberg- Jawetz, Melnik	
	Adelberg's Medical Microbiology – 26-th edition, McGraw-Hill			
	Professional Ed., 2013			
	2. Monica Junie, Car	rmen Costache (Transla	ation). Basic Bacteriology	
	and Virology. Editura Medicală Universitară. "Iuliu Hațieganu" Cluj-			
	Napoca, 2011			
	3. Carmen Costache, Lia Monica Junie, Ioana Colosi. Medical			
	bacteriology and medical virology. Editura Medicală Universitară			
	"Iuliu Haţieganu", Cluj Napoca, 2017			
	4. Carmen A. Costache, Ioana A. Colosi, Madalina A. Bordea.			
	Laboratory works for Microbiology. Editura Medicală Universitară			
	"Iuliu Haţieganu", Cluj Napoca, 2019			
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the	70%	15%	15%	
final grade:				
<u> </u>	1	1	1	

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Faculty			Dental Medicine						
Domain of study			Health						
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	·se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Dental	Propedeu	tics and	Esthetics		
Cours title			MORP	HOLOG	Y OF T	EETH A	ND DEN	ΓAL	
			ARCHES						
Respo	nsible	for lectu	re	Lecturer Dr. Alexandra Botoș					
Responsible for practical			Lecturer Dr. Alexandra Botoș						
activity			Teachi	ng Assista	ant Dr. A	melia Bo	itor		
-			Teaching Assistant Dr. Ioana Vlas						
The fo	ormativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
**	G	hours/wee	/week	hours/semester		- ·	~ "	Type of	
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	1	2	14	28	33	75	3	E

Pre-conditions	Morphology and function of the dento-maxillary system,
(Preliminary conditions)	Anatomy of the head.
Requisites for lectures	70% of the hours- Compulsory attendance
and practical activities	Lecture hall with multi-media system for projection
	100% compulsory attendance.
	Simulation rooms with phantom heads for each student.
	Examination rooms with specific equipment (dental unit,
	dental examination equipment).

Professional	• The ability to correctly use the professional language in the domain of			
competences	dental morphology			
	Knowledge of stages of dental examination			
	Knowledge of techniques of dental examination			
	Recognition of normal and pathological aspects of the dentomaxillary			
	system within exo- and endooral examination			
	The capacity of integration of dental examination stages within the			
	general patient examination			
	Ability to fill in and use the dental chart			
	Asimilation of specific terminology used in the dental and maxillo-			
	facial examination			
	Abilities in performing practical activities, based on examination			
	charts and appointment sheets			
Transversal	Ability to use the information in a new context			
competences	Ability to apply the theoretical knowledge on a practical basis.			

	Ability to establish connection between the studied subjects.				
General	• Knowledge regarding the examination in dentistry, to differentiate				
objectives	between normal and pathological elements in the maxilla-facial area.				
Specific	Knowledge of the stages of examination in dentistry.				
objectives	Knowledge of examination techniques used in dentistry				
	Ability to recognize normal and pathological aspects of the dento-				
	maxillary system				
	Knowledge and use of the dental chart				
	 Knowledge of general categories of signs and symptoms that 				
	characterize normal and pathological aspects of the structures of the				
	dento-maxillary system				
	Gain of the practical experience necessary to use the examination				
	instruments in dentistry				

LECTURES					
Teaching	PPT presentations				
methods	Interactive discussions				
Content	1. Patient general information, patient history.				
	2. General examination				
	3. Perioral examination through frontal face inspection				
	4. Perioral examination through lateral face inspection				
	5. Perioral examination through palpation				
	6. Examination of the normal temporomandibular joint				
	7. Endooral examination. Mucosa, hygiene.				
	8. The examination of the dental arches.				
	9. The dental chart				
	10. The dental examination				
	11. Single tooth position changes, group position changes				
	12. Examination of the static occlusal intermaxillary relationships				
	13. Examination of the dynamic movements of the mandible				
	14. Complementary examinations				
	PRACTICAL ACTIVITIES				
Teaching	Interactive exercises, practical demonstrations on phantom head and on				
methods	patient, evaluation and discussions on case pictures				
Practical	Application of questionnaires in small work groups, performing of				
activity carried	examination techniques on a phantom head, interactive exercises				
out by students	practicing examination techniques on patients, evaluation of study casts,				
	evaluation and discussions on case pictures				
Content	1. Patient history.				
	2. Perioral examination through frontal face inspection				
	3. Perioral examination through lateral face inspection				
	4. Perioral examination through palpation				
	5. Evaluation of the normal temporomandibular joint				
	6. Revision of the exooral patient examination				
	7. The examination of the oral mucosa				

	8. The examination of	f the dental arches				
	9. The dental chart					
	10. Dental examinatio	n				
	11. Single tooth position changes, group position changes					
	12. Evaluation of static occlusal intermaxillary relationship					
	13. Evaluation of dynamic movements of the mandible					
	14. Revision of endoor	ral examination				
Bibliography	, ,	D, Aghiorghiesei A, Mesa	, C.			
		y Book. Editura Medic	ală Universitară "Iuliu			
	Hațieganu" Cluj-	•				
		elhard D.E Anatomy of C				
		pproach. 8 th edition. Elsevi				
		xham B, Linden R, Sloan A				
		gy. Churchill Livingstone				
		ctional Occlusion. From T	MJ to Smile Design.			
	Mosby Elsevier.		27.11.0.27			
		d Neck Anatomy for Denti				
	Elsevier Saunders. 2 nd Edition. Philadelphia. 2012. 6. Nelson S. Wheeler's Dental Anatomy, Physiology and Occlusion.					
	11 th edition. Elsey		stology and Occiusion.			
			hular disorders and			
	7. Okeson JP. Management of Temporomandibular disorders and occlusion. Elsevier. 8 th Edition. St. Louis. 2020					
	8. Rosen E, Nemcovsky C, Tsesis I. Evidence-Based Decision Making in Dentistry. Springer. 2017					
		s G. Woelfel's Dental Ana	tomy, Enhanced 9th			
	_	d Bartlett Publishers. 2020				
	10. Stefanac S, Nesbi	it S. Diagnosis and Treatm	ent planning in			
	Dentistry. 3 rd Edi	tion. Elsevier, 2017				
	11. Terezhalmy GT,	Huber MA, Jones AC. Phy	sical Evaluation in			
		Wiley-Blackwell. 2009.				
		ne S. Clinical Procedure	es in Dentistry. Wiley			
	Blackwell. 2018					
Evaluation:	Written exam	Practical exam	Activity during the semester:			
Percent of the final grade:						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	12 Medical education
Discipline	Medical psychology

Cours title			MEDICAL PSYCHOLOGY						
Responsible for lecture			Dana-Cristina Herṭa, MD, PhD						
Responsible for practical			Dana-Cristina Herta, MD, PhD						
activity			Radu-F	laviu Orc	oian, MD	, PhD			
The formative category of			DC						
the di	the discipline								
Comp	Compulsory discipline			Compu	lsory				
			/week	hours/semester		7 7. 1	~ "	Type of	
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	1	1	14	14	22	50	2	Е

Pre-conditions	Behavioral Sciences
(Preliminary	Medical Communication
conditions)	Knowledge and understanding of psychological terminology
Requisites for lectures	Attendance: at least 75% (11 of 14) of lectures
and practical activities	No mobile phones
	Eating and drinking are not allowed
	Tardiness will not be accepted
	Compulsory attendance in all practical works
	Completing the portfolio

Professional	The management of bio-psycho-social implications of medical
competences	interventions
	Identification and correction of risk-taking behaviors
	Medical counselling abilities
Transversal	Critical analysis of reactions and behaviors of sick persons
competences	Efficient communication with and counselling persons going through special circumstances
	• Emotional intelligence: empathy, constructive management of emotions
	Critical thinking
General objectives	Acquisition of necessary knowledge, attitudes, and skills for the proper management of the psychological implications of medical practice
Specific objectives	Acquisition of necessary knowledge, attitudes, and skills for choosing and implementing the adequate model of the doctor-patient relationship
	• Acquisition of necessary knowledge, attitudes, and skills for the correct evaluation of the patient's reaction to illness and for facilitating the adoption of a correct patient role
	Acquisition of necessary knowledge, attitudes, and skills for the correct psychological management of patients during the diagnostic process
	Acquisition of necessary knowledge, attitudes, and skills for ensuring

 adherence to treatment Acquisition of necessary knowledge, attitudes, and skills for facilitating the adoption of healthy lifestyles
Acquisition of necessary knowledge, attitudes, and skills for efficient stress and crisis management
• Acquisition of necessary knowledge, attitudes, and skills for the correct psychological management of terminally ill patients

	LECTURES						
Teaching	Lecture						
methods	Demonstration						
	Debate						
	Problem solving						
	Heuristic conversation						
	Case study						
Content	1. Introduction – Mental processes						
	- Introduction						
	 The general objective of the discipline 						
	 Specific objectives of the discipline 						
	 Course content 						
	 Conditions for participation 						
	 Evaluation process 						
	- Mental processes						
	 Definition 						
	 Classification 						
	- The human cognitive system 2. Bio-psycho-typology						
	- Short history						
	- The type of behavior concept						
	- Type A, B, C and D behaviors						
	3. Normal-Abnormal. Health-Disease						
	- Criteria for normality						
	- Criteria for abnormality						
	- Definition of health						
	 Explicative models of disease Mental representation of disease 4. The doctor-patient relationship						
	- Patient's statute and role						
	- Doctor's statute and role						
	- Models of the doctor-patient relationship						
	- Customization of the doctor-patient relationship in accordance with						
	the context and patient's personality						
	5. Stress – Health – Disease						
	- Definition						
	o Stressors						
	 Definition 						

- Classification
- Evaluation
- Reactions to stress (somatic and psychological)
- Stress mediators
 - Support network
 - Defense mechanisms
 - Coping mechanisms
- The relationship between stress and disease
 - o Fundamentals of psycho-somatic medicine
 - The relationship between stress and mental disorders

6. Crisis and crisis intervention

- Definition of crisis
- Types of crises
- The evolution of a situational crisis
- The evolution of a catastrophic crisis
- Principles of crisis intervention
- Means for crisis intervention
- Stages of crisis intervention

7. Suicide

- Definitions
- Epidemiology
- The suicidal process
- Suicide risk assessment
- Strategies for the prevention of suicidal behavior

8. Thanato-psychology

- The concept of death in medicine and society
- The stages of dying
- Medical and legal criteria for declaring cerebral death and death
- Main causes of mortality
- The psychological reaction to being diagnosed with a terminal illness
- Psychological assistance for terminally ill patients
- Bereavement

9. Psychology of pain

- Definition of pain
- Acute vs. chronic pain
- Theoretical models of pain
- Pain management
- Placebo and nocebo effects
 - o Definitions
 - Factors

10. Iatrogenies

- The concept of iatrogenic conditions
- Pharmacological iatrogenies
- Investigation iatrogenies
- Relational iatrogenies

	TT - m fort to constant						
	- Hospital iatrogenies						
	11. Compliance and adherence to treatment						
	- Definitions						
	- Factors that influence therapeutic compliance						
	- Evaluation of compliance						
	- Main non-compliance situations						
	- Methods for increasing compliance						
	12. Empathy						
	- Definitions						
	- The components of the empathic attitude						
	- Clinical empathy						
	- Principles of empathic communication						
	- Main errors in establishing an empathetic relationship between						
	doctor and patients						
	13. Health psychology						
	- Introduction to health psychoclogy						
	- Healthy eating						
	- Psychoactive substance use						
	- Sexual risk-taking behavior						
	- Healthy lifestyle						
	- Resilience						
	O Definition						
	Characteristics of resilient persons 14 Fundamentals in psychotherens						
	14. Fundamentals in psychotherapy						
	Classification of psychotherapeutic methods						
	Psychodynamic psychotherapies						
	Behavioral psychotherapies						
	Cognitive psychotherapies						
	Humanistic psychotherapies. Techniques for counselling						
	Applications of psychotherapies in medical practice						
	Medical counselling						
	o Transferential relationships						
m 1.	PRACTICAL ACTIVITIES						
Teaching	Demonstration Everying						
methods	Exercise						
	Conversation Problem calving						
	Problem-solving Case studies						
	Case studies Poloplay						
Practical	Roleplay Observation of patient evaluation						
activity carried	Exercise mental processes evaluation						
out by students	Exercise of personality assessment						
out by students	Roleplay for developing an adequate mental representation of disease						
	Roleplay for relationship building with difficult patients						
	Case study debates						
	Evaluation of a patient						
	Dianamon of a panoni						

	Stress self-assessment					
		g stress in another perso	n			
	Roleplay on crisis inte		11			
	1 2	empathic relationships				
	Evaluation of iatrogen					
		nce to treatment of a pa	tient			
Content	1. Evaluation of menta		ttent			
Content	2. Personality assessm	•				
			mantal range antation of			
	3. The role of the doctor in building a correct mental representation of					
	disease	1.1 4.1 1 41.1				
	4. The bio-psycho-soc		1: 66: 14 4: 4			
		r-patient relationship to	difficult patients: anxious			
	and phobic patients		11.00			
		r-patient relationship to	difficult patients:			
	obsessional and parane		11.00			
	1 0	r-patient relationship to	difficult patients:			
	depressive and histrior					
	1 0	r-patient relationship to	difficult patients:			
	aggressive and detained					
	9. evaluation of stress. Management of the burnout syndrome					
	10. Crisis intervention for suicide prevention					
	11. Bereavement					
	12. Therapeutic iatrog					
	13. Evaluation of com	•				
	14. Empathic relations					
Bibliography	1. Cozman D, Neme	eș B. Medical Psycholog	gy. Cluj-Napoca: Presa			
	Universitară Cluj	eană; 2014. ISBN 978-9	973-595-651-6			
	2. Coman H, Nemes	ș B. Behavioral Science	s. Cluj-Napoca: Presa			
		eană; 2014. ISBN 978-9				
			resa Universitară Clujeană;			
	2013. ISBN 978-973-595-601-1					
	4. Cosman D. Psihologie medicală. Iași: Ed. Polirom; 2010. ISBN					
	978-973-46-1735					
		Yeld Behavioral Science				
	Lippincott Williams & Wilkins; 2001. ISBN 0-7817-3084-8					
Evaluation:	Written exam Practical exam Activity during the semester:					
Percent of the	50%	25%	25%			
final grade:	/ •	,	/ •			
Brauer		l				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English

Level	evel of course			I and II- License and masters					
Qualit	Qualification			Doctor	Doctor of Dental Medicine				
Depar	Department			4 Prost	hetics and	l Dental	materials		
Discip	line			Dental	Materials	, Ergono	mics		
Cours	title			ERGO	NOMIC	S			
Respo	nsible f	for lectu	re	Lectur	er Dr.Vo	ina-Țon	ea Andra	ada- Felici	iana
Respo	Responsible for practical			Vacant Assistant 59					
activit	y								
The fo	The formative category of			DS	DS				
the dis	the discipline								
Comp	Compulsory discipline		Compu	lsory					
		hours/week		ho	urs/semes	ter		~	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	2	2	2	28	28	69	125	5	Е

Pre-conditions (Preliminary	Elementary knowledge of human body anatomy		
conditions)			
Requisites for lectures and	Video projection amphitheater		
practical activities	Laboratories with specific practical activity equipment		

Professional	Ability to use the specialty terminology						
competences	Knowledge of concepts regarding rules of dentist behavior during its work						
	Knowledge regarding correct working positions, optimal movements and adequate armamentarium						
	Acquisition of practical experience necessary for "four-handed dentistry"						
	Assimilation of general information regarding the rules of dental practice organization and environmental factors						
	Dental muscular-skeletal disorders recognition and their treatments						
Transversal	Use of assimilated information in new contexts						
competences	Application of theoretical concepts in the practical activity						
	Interdisciplinary correlations within the study domains						
General	• Knowledge of concepts regarding rules of dentist behavior during its						
objectives	work in such a way to obtain the comfort and protection of his						
	health, with maximum of work efficiency.						
Specific	Assimilated knowledge regarding dental work positions, movements						
objectives	and adequate armamentarium						
	Acquisition of practical experience necessary for "four-handed dentistry"						
	Assimilation of general information regarding the rules of dental						
	practice organization and environmental factors						
	Study of dental muscular-skeletal disorders recognition and their						

treatments
Exercising the synthesis ability and bibliographical research

	LECTURES
Teaching	Interactive, systematic lectures
methods	Oral presentation
	Powerpoint presentation
Content	1. Ergonomic-based organizing criteria: Anthropometric criteria
	2. Ergonomic-based organizing criteria: Physiological and neuro-
	psychological criteria
	3. Ergonomic-based organizing criteria: Chrono-biological and
	environmental criteria
	4. Ergonomic-based organizing criteria: Environmental criterion.
	Specific dental activity criterion.
	5. Ergonomic organization of dental activity. Dental practice: location,
	internal organization. Ergonomic parameters of the working space.
	6. Equipment of the treatment area.
	7. Dental unit components. Dental instruments.
	8. Dental unit components. Dental instruments.
	9. Ergonomic organization of the medical activity.
	10. Ergonomic organization of the medical activity.
	11. Four-handed and six-handed dentistry
	12. The transfer of instruments and materials during dental procedures.
	13. The transfer of instruments and materials during dental procedures.
	14. Overstress. Muscular-skeletal disorders.
	PRACTICAL ACTIVITIES
Teaching	Interractive discussion
methods	Practical demonstrations
Practical	Practical applications corresponding to each practical class discussed
activity carried	topic
out by students	Exercises related to the practical class discussed topics
Content	1. Dentist's dress code in order to avoid contamination.
	2. Dental assistant's dress code in order to avoid contamination.
	3. Manual instruments (examination kit). Light curing device.
	4. The ambient: information regarding dental treatment room
	dimensions, walls and floors, chromatics, lightning sources,
	microclimate, noise effects.
	5. Equipment of the treatment area: "zero point", optimal and maximum
	space. 6 Dental units components handling
	6. Dental unit: components, handling.
	7. Rubber dam system: components and handling.
	8. Working positions of dentist and dental assistant. Patient positioning
	in the dental chair.
	9. Four-handed and six-handed dentistry.
	10. Ergonomic organizing of medical activity: scaling.

	11. Erg	onomic organi	zing of medical activity: p	preparation of a dental		
			on using a light-cured res			
	_		zing of medical activity: a	pplication of an		
		m restoration.	-in a of madical activity.	in 11 and immedian		
		onomic organi ctical exam.	zing of medical activity: f	un-arch impression.		
Bibliography			K Dunia P Rhargaya I	Francomics in Dantistry		
Dibnogi apny	1.	1. P. Kalura, S. K. Punia, R. Bhargava - Ergonomics in Dentistry, Lambert Academic Publishing, 2021, ISBN-10:6203840556				
	2.	L. B. Boyd - 97803236724	Dental Instruments, 7th E 136	dition, 2021, ISBN:		
	3.	•	gonomics in Dental Practi 020, ISBN:6202528400	ce, Lambert Academic		
	4.	D.S. Robinso ISBN: 97803	on - Modern Dental Assis 23624855	ting, Elsevier, 2020,		
	5.	M. Bhandari, S. Grover, D. Rawat - Ergonomics:The Dental Law: Ergonomic applications to dental practice, Lambert Academic Publishing, 2019, ISBN-10: 613945333X				
	6.	P.S Chauhan - Handbook of Instruments in Dentistry, CBS Publishers, 2018, ISBN: 978-9387742833				
	7.	D. Mostofsky, F. Fortune - Behavioral Dentistry, Wiley Blackwell, 2013, ISBN-10: 1118272064				
	8.	D. S. Robinson, D. L. Bird - Essentials of Dental Assisting, 6th Edition, Elsevier, 2013, ISBN-10: 0323400647				
	9.	C. Scheller-Sheridan - Basic Guide to Dental Instruments, Wiley Blackwell, 2011, ISBN-10: 144433532				
	10. B. L. Finkbeiner, C. A. Finkbeiner - Practice Management for the Dental Team 7th Edition, Elsevier, 2011, ISBN-10: 9780323065368					
Evaluation:	Wri	tten exam	Practical exam	Activity during the semester:		
Percent of the final grade:		33%	33%	33%		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	2 Functional sciences
Discipline	Immunology and Allergology
Cours title	IMMUNOLOGY

Responsible for lecture			Lectur	er Dr. M	untean l	loana Ad	riana		
Responsible for practical			Lecture	Lecturer Dr. Pintea Irena					
activit	ty								
The fo	The formative category of			DS	DS				
the di	the discipline								
Comp	Compulsory discipline		Compu	lsory					
	~	hours/week		ho	urs/semes	ter		~ "	Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	1	1	14	14	22	50	2	Е

Pre-conditions (Preliminary conditions)	Phisiology
Requisites for lectures	Amphitheater, projection systems, audio system
and practical activities	Halls with Projection Systems, Laboratory, Specialized
_	Outpatients, Salons

Professional	Ability to Use Properly and In Context Expert Terminology
competences	 Knowledge of Immobilized Cells and Their Normal Functions. Mechanisms that are primed for immune response. Elements involved in immune response: complement system, cytokines, adhesion molecules, receptors, immunoglobulins. Study of defense mechanisms Familiarize with immune response assessment methods. Ability to indicate, explain, and interpret analysis bulletins. Understanding issues related to immune mechanism disorders: hypersensitivity, allergies, autoimmune, immune deficiency, transplant, cancers. Knowledge of methods and products used in immune response influencing therapy: immunomodulators (immunosuppressive, immunostimulating, biological therapies). Knowledge of food-induced diseases with immune mechanism.
Transversal competences	 The objective examination of the immune system. Using notions in new contexts Using theoretical notions in problem solving Optimal and creative use of own potential in scientific activities Own professional development
General objectives	Knowledge, deepening and correct use of the concepts of immunology
Specific objectives	Students familiarization with aspects related to the application of theoretical and practical principles of immunology with emphasis on the use of diagnostic methods: serological, histological, immunofluorescence, in vivo testing
	Knowledge of the main features of diseases with immune-allergic

 Understanding the motives and mechanisms that stand at the base of the defense response Familiarization with the main research directions in the field of
immunology
 Exercise of synthesis and documentary capacity

	LECTURES
Teaching	Lecture, systemic exposure, conversation, questioning
methods	Oral exposures coupled with PowerPoint presentations
Content	1. History, Importance of immunology, Natural immunity, Natural and
	acquired immunity. Organs and cells involved in immune response,.
	2. Antigen recognition method. Immune activation mechanism. The
	effector response
	3. Antigens, Antibodies, Monoclonal Antibodies,
	4. System Complement
	5. Cytokines, chemokines, receptors, adhesion molecules, apoptosis,.
	6. Types of hypersensitivity
	7. Allergies.
	8. Autoimmune diseases.
	9. Transplant, Tumors.
	10. Immune Deficiency
	11. Diseases of oral cavity. Gingivite, periodontitis
	12. Impairment of oral cavity in systemic diseases
	13. Immunomodulatory methods. Immunosuppressants
	14. Immunotherapy. Induction to Immune Tolerance
	PRACTICAL ACTIVITIES
Teaching	Systematic exposure, conversation, problem solving, demonstrations,
methods	patients
Practical	Coversation. Clinical exam. Problem solving
activity carried	
out by students	
Content	1. In vitro investigation methods (complete blood count, immune cells)
	2. In vitro investigation methods (ELISA, FACS,
	immunohistochemistry, etc)
	3. Techniques for antibodies evaluation (including MoAb)
	4. Immune investigations and their interpretation
	5. Cytokines, adhesion molecules, complement, Ab, AutoAb
	6. Immune Investigations and Their Interpretation. In vivo
	investigations presentation
	7. Immunodeficiency case pesentations. Examining of lymph nodes,
	spline, the corroboration of clinical examination information with
	patient history and relevant laboratory elements for dissonant states;
	conditions of performance (compatibility, immunosuppression);
	8. tumors case presentations Examining of lymph nodes, spline, the
	corroboration of clinical examination information with patient history

	and relevant laborator	y elements for dissonant st	ates				
	9. transplant case pres	entations					
	10. Hypersensitivity -	case presentations					
	11. Immunological as	sessment and Allergology:	Total IgE, specific IgE,				
	Immunogram,						
	12. Types of autoantibodies, disimune states laboratory identification						
	13. Autoimmune disea	ases cases, patients					
	14. Immunopathology	in parodontitis					
Bibliography		Crietyear (under red.). C					
	Faculty of Medicine	. Ed a-iva, "Iuliu Haţiegaı	nu" Medical University,				
	Cluj-Napoca, 2011.						
	2. Dumitrașcu d. At	opic diseases, Ed. Med. U	Jniv. "Iuliu Haţieganu",				
	Cluj Napoca, 2002.						
	3. Doru dejica Immunotherapy Therapy, Mega Publishing House, Cluj-						
	Napoca, 2006.						
	4. Middleton's Allergy Principles & Practice 8th Edition. Ed. Mosby						
	2013						
	5. Roitt IM - Essential Immunology, 13th Edition, 2017, Blackwell						
	Science						
	6. Janeway's Immunobiology 9th, Kenneth Murphy, 2017						
Evaluation:	Written exam Practical exam Activity during the						
	semester:						
Percent of the final grade:	70%	20%	10%				

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies				Cluj-Napoca					
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and I	I- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			12 Med	dical educ	ation			
Discip	Discipline			Modern languages					
Cours	Cours title			ROMANIAN LANGUAGE					
Responsible for lecture			<u> </u>						
Responsible for practical			Assist.	Prof. An	a Aşkar				
	activity								
The fo	ormativ	e catego	ry of	DC					
the dis	the discipline								
Compulsory discipline		Compulsoy							
**	Vaca Cam	hours/week		ho	urs/semes	ter	T		Type of
Year		C	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1, 2	0	4+4	0	56+56		112	2	Е

Pre-conditions	-
(Preliminary conditions)	
Requisites for lectures and	To respect the rules and regulations for practical activities
practical activities	

Professional	• The ability to properly employ Romanian (listening, reading,					
competences	speaking, writing) in order to communicate in general contexts, both					
	academic and medical					
	The ability to use medical terms specific to various fields					
Transversal	The ability to employ prior knowledge of Romanian in medical and					
competences	academic activities in order to communicate adequately in Romanian					
	The ability to make interdisciplinary connections in the fields of study					
General	Development of competences in general Romanian and in academic					
objectives	medical language					
Specific	At the end of the seminar, the learner will be capable to:					
objectives	• use all forms of the verb <i>a durea</i> and to conjugate it in all verb tenses					
	give advice and to make recommendations for a patient					
	• speak about teeth and tooth structure					
	perform an inventory of medical instruments specific to dentistry					
	speak about prevention of dental affections					

	PRACTICAL ACTIVITIES						
Teaching	Interactive teaching and multimedia support						
methods							
Practical	Specific exercises and activities (individual, in pairs or in groups)						
activity carried	aiming to develop the main competences in Romanian (speaking,						
out by students	listening, reading, and writing)						
Content	1. Revision – verbs in present tense, verbs that require personal and reflexive pronouns. Family. Possessive adjectives. Verbs in the subjunctive mood.						
	2. My future doctor's practice						
	3. The future. Vocabulary						
	4. Taking a history						
	5. Expressing pain. Giving advice						
	6. The medical chart. The clinical examination						
	7. The dental cavity						
	8. The anatomy of the tooth						
	9. The subjunctive – 3 rd person						
	10. Prevention of dental problems						
	11. Tooth brushing. The anatomy of the mouth						
	12. Verbs in the imperative mood						
	13. Making an appointment at the dentist's						
	14. Verbs in the conditional mood						
	15. Dentistry in the past						

	16 Post tongs contin						
	16. Past tense contin						
	17. The patient's read						
		pronouns in Dative case	:				
	19. Sterilization of de						
	20. The impersonal p						
	21. The dental implai						
	22. The noun in the C	Genitive case					
	23. Xerostomia						
	24. Direct speech. Inc	direct speech					
	25. The obturation						
	26. The popular futur						
		ntages and disadvantages	\$				
	28. Oral examination	1					
Bibliography	1. Gogâță C., Tor	noiagă A., Băgiag A.,	Coiug A., Andreica A.,				
		-	studenții Erasmus, Editura				
		licală, Cluj-Napoca, 201					
			Gogâță C., Tomoiagă A.,				
			nediar, Editura Medicală				
		iu Haţieganu", Cluj-Nap					
		_	oiug A., Gogâță A., Limba				
	română în context stomatologic, Editura Medicală Universitară						
	"Iuliu Haţieganu", Cluj-Napoca, 2017 4. Gogâţă C., Tomoiagă A., Coiug A., Andreica A., Băgiag A., Ursa						
		_					
			medical. Nivel A2, Editura				
		sitară "Iuliu Hațieganu",	= =				
	- ·	itica limbii romane. Edi	ția III, Cluj, Ed. Echinox,				
	2001. 6 Prîngus G. Janesey A. Saramandu M. Limba Ramînă Manual						
	6. Brâncuş, G. Ionescu A., Saramandu M., Limba Română. Manual						
	pentru studenții străini. Ediția IV, Ed. Universității din București, 1996.						
		aa M. Limba namână d	a hază Iasi Ed Institutul				
	7. Dorobăţ, A., Fotea, M. Limba română de bază. Iaşi, Ed. Institutul						
	European, 1999.	Limba română nentru	stržini Iasi Ed Polirom				
	8. Kohn, D., Puls. Limba română pentru străini. Iași, Ed. Polirom,						
	2009. 9. Platon, E., Sonea, I., Vîlcu, D. Manual de limba română ca limbă						
		l-A2. Cluj-Napoca, Casa					
	, , ,	5 1	diția V, Cluj-Napoca, Ed.				
	Echinox, 2003.	ca baa fafa profesof. L	aiçia 1, Ciuj Hapoca, Ed.				
Evaluation:	Written exam	Practical exam	Activity during the				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 2 11 12 12 12 12 12 12 12 12 12 12 12	semester:				
Percent of the	33%	33%	34%				
final grade:			2.70				
mu grade.	<u> </u>	l	l				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine

Doma	Domain of study			Health						
Acade	Academic degree			Dental Medicine in English						
Level	of cour	:se		I and II	I and II- License and masters					
Qualif	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			4 Prost	hetics and	l Dental	materials			
Discip	line			Dental	materials	, Ergono	mics			
Cours	title			DENT	AL MAT	ERIAL	S			
Responsible for lecture			Lecturer Dr. Adriana Objelean							
Respo	Responsible for practical			Lecturer Dr. Adriana Objelean						
activit	activity			Lecturer dr. Andrada Voina-Tonea						
	-			As 58 V	As 58 Vacant					
The fo	The formative category of			DS						
the dis	the discipline									
Comp	Compulsory discipline		Compulsory							
* 7		hours/week		ho	hours/semester			T 1 G 11	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
2	2	2	3	28	42	80	150	6	Е	

Pre-conditions	Knowledge of the properties that characterize dental
(Preliminary conditions)	materials
Requisites for lectures	Video projection amphitheater
and practical activities	Laboratories with specific practical activity equipment

Professional	Ability to adequately use the specialty terminology
competences	Acquiring knowledge about the composition, properties, and indications
	for use of dental restorative materials, focusing on practical applications
	• Improving the capacity to reproduce the theoretical knowledge, through
	preparation and use of the dental materials
	 Acquisition of the necessary practice for the preparation and use of different types of dental restorative materials
	Acquisition of the necessary practice in order to choose the optimum
	material for a given clinical situation
Transversal	Use of assimilated information in new contexts
competences	Application of theoretical concepts in the practical activity
	Interdisciplinary correlations within the study domains
General	• Knowledge of fundamental concepts of composition, properties, and
objectives	indications for use of restorative dental materials, focusing on practical applications
Specific	Acquiring knowledge about the composition, properties, and indications
objectives	for use of dental materials, with an emphasis on practical applications
	• Detailed study of the preparation and manipulation of dental materials,
	used directly by the dentist in the dental office
	Acquiring basic knowledge in the formulation and use of dental science.

Theoretical necessary and a logical algorithm of choice of the most suitable material for a particular clinical situation
Capacity execution and bibliographic documentation summary

	LECTURES					
Teaching	Lecture, systematic, interactive lectures.					
methods	Oral presentation, PowerPoint presentation					
Content	Principles of the adhesion. Resume					
	2. Adhesion to the hard dental tissues. Principles					
	3. Etch and rinse adhesive systems - mechanisms of action.					
	Self-etch adhesive systems - mechanisms of action					
	4. Resin-based Composites- Classification, composition; Physical					
	and mechanical properties					
	5. Resin-based Composites- Chemical and biological properties.					
	Adhesion					
	6. Glass ionomer cements and resin -modified glass ionomer					
	cements					
	7. Ceromers, ormocers, compomers.					
	8. Intermediate materials (base and liners)					
	9. Dental Amalgam					
	10. Polymers. Lab Resin-based composites: classification,					
	properties, indications. Heat-based polymerization-graphics,					
	conditions, advantages/disadvantages. Fiber -reinforced resin-					
	based composites-clinical indications.					
	11. Ceramics: composition, properties, classification of ceramic					
	systems. Technology and clinical applications of PFM and full-					
	aesthetic ceramic restorations.					
	12. Ceramics: technology and clinical applications of PFM and full-					
	aesthetic ceramic restorations.					
	13. Luting cements used in dental prosthetics					
	14. Review for assimilated notions and knowledge					
	PRACTICAL ACTIVITIES					
Teaching	Interactive discussions					
methods						
Practical	Checking procedures for testing the knowledge and performing different					
activity carried	procedures and techniques for the application of restorative dental					
out by students	materials in prepared cavities					
Content	1. Principles of the adhesion. Resume					
	2. Adhesion to the hard dental tissues					
	3. Etch and rinse adhesive systems					
	4. Self-etch adhesive systems					
	5. Self-curing Resin-based composites					
	6. Light-curing resin-based composites					
	7. Glass ionomer cements and resin -modified glass ionomer					
	cements					

	8. Review of the	esthetic filling materi	als	
	9. Intermediate materials (base and liners)			
	10. Dental amalgam			
	11. Polymers-polymerization reaction. Ceramics-ceramic kit			
	12. Luting cements used for mixed and metallic prosthetic			
	13. Luting cemen	ts used for full aestheti	ic prosthetic restorations	
	14. Practical examination			
Bibliography	1. Ronald L. Sakaguchi, John M. Powers. Craig's restorative dental materials - 14th ed.Elsevier Mosby 2018			
			phine F. Esquivel-Upshaw.	
	Phillips' Science of Dental Materials, 13th Edition, ed.Elsevier Mosby 2021			
	3. Andre V. Ritter. Sturdevant's Art and Science of Operative			
	Dentistry, 7th Edition, 2018			
	4. Stephen F. Rosenstiel, Martin F. Land. Contemporary Fixed			
	Prosthodontics, 5th Edition, Ed Elsevier, 2015			
	5. Richard Van Noort. Introduction to Dental Materials, 4th Edition.			
	ed Elsevier, 2013			
	6. W. Stephen Eakle, Kimberly G. Bastin. Dental Materials, Clinical			
	Applications for Dental Assistants and Dental Hygienists, 4th			
	Edition. Ed. Elsevier 2020			
	7. Nicola C și colab. – Materiale dentare – Considerații clinice și			
		Casa Cărții de Știință,		
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the final grade:	33%	33%	33%	

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgraduate studies	Cluj-Napoca				
Faculty	Dental Medicine				
Domain of study	Health				
Academic degree	Dental Medicine in English				
Level of course	I and II- License and masters				
Qualification Doctor of Dental Medicine					
Department	12 Medical education				
Discipline	Medical informatics and Biostatistics				
Cours title	MEDICAL RESEARCH METHODOLOGY				
Responsible for lecture	Assoc. Prof. Dr. Horațiu Colosi				
Responsible for practical	Assoc. Prof. Dr. Mădălina Văleanu				
activity	Lect. Dr. Dan Istrate				
The formative category of	DS				
the discipline					
Compulsory discipline	Compulsory				
Year Sem hours/week	hours/semester Total Credits Type of				

		С	LP/S	С	LP/S	SI			Assessment
2	2	1	2	14	28	8	50	2	Е

Pre-conditions	Fundamental Knowledge of Medical Informatics and Biostatistics			
(Preliminary				
conditions)				
Requisites for	Telephone calls are not allowed during classes; Food and beverage			
lectures and	consumption are not permitted during classes;			
practical activities	Late students are not accepted in class, since this proves to be			
	disruptive to the educational process.			
	Each student must complete an individual portfolio of practical			
	activities.			
	Students will scan the keycard to access the discipline IT resources			
	using the specially designed system. They will use their			
	authentication data (username, password) to log in the discipline			
	network.			
	Students shall comply to the Regulations of the Discipline of			
	Medical Informatics and Biostatistics;			
	Telephone calls are not allowed during classes;			
	Food and beverage consumption are not permitted during classes;			
	Late students are not accepted in class, since this proves to be			
	disruptive to the educational process.			

	-
Professional competences	Efficient use of bibliographic documentation methods to retrieve, use and critical evaluate medical scientific literature.
competences	use and critical evaluate medical scientific merature.
	 Identification and application of proper study types and research procedures in medical research.
	 Selecting and applying correct methods of data analysis in medical research.
	 Correct interpretation and critical assessment of published research results.
	 Correct dissemination of scientific works (written and oral presentation).
Transversal	Competencies for the use of digital media for medical
competences	information
	 Competencies for professional continuous education by training of critical thinking skills
	Competencies for critical evaluation of medical literature for practicing evidence-based medicine / dentistry (EBM / EBD)
	Competencies for writing a scientific thesis and its oral defense
	Competencies of professional ethics
General	To develop skills for effective retrieval, use and critical
objectives	evaluation of medical scientific literature.
	 To develop skills to choose proper research methods and types of

	 clinical studies in medical research. To develop skills to choose suitable methods for data analysis and to correctly interpret results from medical research. Skills development and acquisition of knowledge about appropriate methods of presenting results of scientific research. Skills development and acquisition of knowledge needed to practice evidence-based medicine / dentistry (EBM / EBD).
Specific objectives	 The course provides students fundamental knowledge on: Searching, recording and analyzing medical literature Domains of medical research and clinical study types Methods of medical research Analysis and interpretation of results of medical studies Principles for writing and correct presentation of research results Principles of evidence-based medicine / dentistry (EBM / EBD) Ethical principles in medical research
	 Practical Activities have as objective the application of knowledge regarding: Retrieving and accessing relevant medical information Formulating proper research questions, defining the aim and objectives of research. The selection and proper formulation of research hypotheses. The identification of target populations in medical studies. Understanding sampling methods. Defining appropriate research variables. Writing a research protocol correctly. Understanding and choosing correct methods of data collection Understanding and choosing correct statistical methods for data analysis Using computer tools to assist medical research Understanding and using the correct principles of medical writing and oral presentation of medical research results Evaluating the validity of studies Critical reading of medical scientific literature

LECTURES				
Teaching methods	Oral exposure doubled by interactive multimedia presentations. Academic lectures, demonstrations, interactive case studies, discussions based on research scenarios.			
Content	1. Introduction			
	Variability in the living world			
	• Types of variables			
	Bibliographic documentation			
	2. Basic methodology of medical research			
	Phases of a research			
	Data collection			

- Sample-sampling
- Estimation and confidence intervals

The research protocol

3. Clinical studies

Prognostic studies (Evaluation of risk and protective factors)

4. Clinical studies

Diagnostic studies (Evaluation of diagnostic procedures)

5. Clinical studies

Survival analysis (Survival studies)

6. Clinical studies

Therapeutic studies (Randomized controlled trials)

7. Secondary research

Systematic Reviews and Meta-analyses

- 8. Regression analysis and modelling in medical research
 - Linear regression
 - Simple regression
 - Multiple regression
 - Logistic regression

The description of a health phenomenon

9. Choosing a statistical method

- Data types
- Comparing two groups
- Independent and paired samples
- Relation between two variables

Statistical methods for multiple variables

10. Study validity and bias in medical studies

- Selection bias
- Measurement and information bias

Confounding

11. Presenting data

- Tables and graphics used to present categorical data
- Tables and graphics used to present quantitative data
- Graphics for two variables

Errors in presenting data

12. Medical writing and communication of research results

- Objectives of scientific writing
- Proper scientific language and style
- Types of medical texts
- Principles of medical writing of a research paper
- Principles of oral communication of a research paper

The structure and content of a research paper

13. Evidence based medicine/dentistry (EBM/EBD)

- Basic concepts
- Steps for practicing EBM/EBD

	• Acquiring evidences by clinicians			
	Hierarchy of evidence			
	• Searching for evidence			
	Building pertinent clinical questions (the PICO format)			
	 Evaluation of validity for different types of clinical studies 			
	Evaluation of study relevance			
	14. Ethics of medical research			
	• Ethical principles in medical research			
	• Research ethics committees			
	Ethical rules during research			
	PRACTICAL ACTIVITIES			
Teaching	Computer assisted solving of clinical research scenarios; Explanations			
methods	and dialogue in classroom doubled by individual assistance.			
Practical	Students complete a portfolio of practical works using dedicated			
activity carried	computer software.			
out by students				
Content	1. Safety rules. Introduction.			
	Bibliographic documentation – citing references according to the			
	Vancouver style.			
	2. Bibliographic documentation – literature search, bibliographic			
	files.			
	3. Assessing prognostic factors 1. – Case-control study: research			
	scenario (research protocol, data description, data analysis,			
	presenting and interpreting the results).			
	4. Assessing prognostic factors 2. – Cohort study: research			
	scenario (research protocol, data description, data analysis,			
	presenting and interpreting the results).			
	5. Assessing the existence, level and direction of influence for			
	prognostic factors – correlations and regressions: research			
	scenario (research protocol, data description, data analysis,			
	presenting and interpreting the results).			
	6. Assessing prognostic factors 3. – Survival analysis: research			
	scenario (research protocol, data description, data analysis,			
	presenting and interpreting the results).			
	7. Assessing a diagnostic test: research scenario (research			
	protocol, data description, data analysis, presenting and			
	interpreting the results).			
	8. Assessing a therapy – RCT: research scenario (research			
	protocol, data description, data analysis, presenting and			
	interpreting the results).			
	9. Meta-analysis – understanding and interpreting the results			
	10. Identifying bias in medical research. Choosing correct			
	statistical methods.			
	11. Presenting medical research (oral communication of research			
	results): Practical activity for acquiring skills in using proper			

Percent of the final grade:	60%	30%	10%	
Evaluation:	Written exam	Practical exam	Activity during the semester:	
	Available from URL: http://www.info.umfcluj.ro/			
	the faculty of dental medicine / stomatology [online] 2002-2021.			
	5. Practical activities of medical research methodology for students of			
	http://www.info.umfcluj.ro/			
	4. Course presentations for students of the faculty of dental medicine / stomatology [online] 2002-2021. Available from URL:			
	Universitară "Iuliu Hațieganu", 2017.			
	Cercetării Științifice Medicale. Cluj-Napoca: Editura Medicală			
	H, Cutas A, Iancu M, Istrate D, Leucuta DC, Valeanu M. Metodologia			
	Williams & Wilkins; 2013. 3. Drugan T, Berghe AS, Bolboaca SD, Bondor C, Calinici C, Colosi			
	Designing Clinical Research. 4th ed. Philadelphia, PA: Lippincott			
	_	nings SR, Browner WS, O	•	
		sex: John Wiley & Sons I		
Bibliography	1	bell MJ. Design of studi	es for medical research.	
		e research scenarios.		
	(EBM/EBD).		edicine/Dentistry	
	13. Evaluation of study validity. Interpreting the results of medical studies. Practice of Evidence Based Medicine/Dentistry			
	original resea		.1 1, 6 1, 1	
		lts): Case study (critical a	ppraisal of a published	
		edical research (written co		
	scientific styl	le for oral presentations w	ith slides.	

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	3 Molecular sciences		
Discipline	Microbiology		
Cours title	MICROBIOLOGY OF THE ORAL CAVITY		
Responsible for lecture	Assoc. Prof. Dr. Carmen COSTACHE, MD, PhD		
Responsible for practical	Assist. Dr. Mădălina Bordea		
activity	Assist. Dr. Opris Razvan		
	Assist. Dr. Baciu Alina		
The formative category of	DF		
the discipline			
Compulsory discipline	Compulsory		

		hours	/week	ho	urs/semes	ter	m 1	Credits Type of Assessment	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total C		
2	2	1	1	14	14	22	50	2	Е

Pre-conditions	Basic biology	
(Preliminary conditions)	Working with the light microscope	
Requisites for lectures	Respecting the academic rules for the participation to lectures	
and practical activities	Respecting the rules for a microbiology laboratory (wearing a	
	white robe, protective gloves when necessary, etc.)	

Professional	• Involvement in educating the population on the impact of micro-			
competences	organisms (including human microbiocenosis) on health			
	• Knowledge about microorganisms: bacteria, viruses, parasites and fungi			
	producing human pathology particularly in oral cavity and sinuses.			
	Knowledge of medical terminology			
	• Understand the relationship between microorganisms and the human			
	body, ways of transmission and production of infectious diseases to			
	participate in prevention of pathology associated with dental practice			
	• Understand and apply the necessary measures to prevent nosocomial			
	infections			
Transversal	Developing complex professional tasks			
competences	Identify objectives to be achieved, the resources available, the			
	conditions for completion of their work progress, working time,			
	deadlines and risks related to the execution of professional duties.			
	Identify roles and responsibilities in a multidisciplinary team of			
	networking and application techniques.			
	Effective work and longitudinal feedback within a team.			
	Effective use of information sources and communication resources			
	(Internet portals, specialized software applications, databases, online			
	courses etc.) to ensure continuous personal and professional			
	development			
General	Acquiring the basics of medical microbiology: oral cavity microbiology			
objectives	• Study of the microorganisms (bacteria, viruses, parasites, fungi).			
	Knowledge and correct use of microbiology concepts related to			
	contamination with infectious agents and their transmission to humans to			
	initiate an infectious process.			
	Properties of the microorganisms in oral cavity and sinuses, relationship			
	with humans and their environment.			
	The importance of microorganisms as etiologic agents of various			
	infectious clinical entities: oral cavity infections, infections with oral			
	cavity as an entrance point.			
Specific	Acquisition of theoretical and practical knowledge on infectious agents			
objectives	and their possibilities of human contamination.			

• Knowledge of an infectious process in the oral cavity and sinuses and how it is diagnosed. Interpretation of microbiological analysis bulletins.
• Preparing students to perform minimum laboratory techniques needed for a medical dentist.
• Understand the reasons and mechanisms underlying the choice of a particular protocol work.
• Familiarization with the directions of research in microbiology.
• Exercise synthesis and bibliographic documentation capacity.

LECTURES					
Teaching	Lectures, systematic exposure, conversation				
methods	Oral exposure coupled with PPT				
Content	1. Virology				
	General properties, classification, structure, viral multiplication				
	2. Viral pathogenicity and antiviral chemotherapy				
	3. Virology: Orthomyxoviridae-influenza				
	4. Viral hepatitis, HIV infection				
	5. Parasitology: generalities				
	6. Most important human parasitic diseases: giardiasis, oxiurasis,				
	ascaridosis si trichinelosis				
	7. Oral cavity microbiota: species, evolution with age				
	8. Phisical and chemical factors influencing oral microflora				
	9. Agents producing infectious pathology of oral cavity: streptococci				
	10. Agents producing infectious pathology of oral cavity: anaerobic				
	bacteria				
	11. Agents producing infectious pathology of oral cavity: viruses				
	12. Agents producing infectious pathology of oral cavity: parasites				
	13. Agent producing infectious pathology of the sinusis: fungi/yeasts				
	14. Agent producing infectious pathology of the sinusis: filamentous				
	fungi				
	PRACTICAL ACTIVITIES				
Teaching	Conversation, demonstration, performing				
methods					
Practical	Interpretation of assays in virology				
activity carried	Students perform an antigen-antibody reaction for hepatitis				
out by students	Students perform O & P analysis				
	Students see and discuss results of bacterial identification for				
	anaerobic/aerobic bacteria				
~	Students see and discuss results of fungi identification				
Content	1. Principles of laboratory diagnosis in viral infections				
	2. Laboratory diagnosis in hepatitis				
	3.Laboratory diagnosis in influenza, SARS-CoV-2				
	4. Laboratory diagnosis in HIV infection				
	5. Laboratory diagnosis in giardiasis, oxiurasis				
	6.Laboratory diagnosis in ascaridosis and trichinelosis				

	I			
		is in anaerobic infection		
	8. Laboratory diagnos	is in anaerobic infectior	ns of the oral cavity	
	9. Laboratory diagnos:	is in aerobic infections	of the oral cavity	
	10. Laboratory diagno	sis in infections asocia	ted with therapeutic	
	manovers in the oral cavity			
		sis in infections of the s		
	12. Laboratory diagno	sis in fungal infections	of the sinusis - filamentous	
	13. Review			
	14. Practical examinat	ion		
Bibliography	1. George F. Brooks, Janet S. Butel, Stephen A. Morse, Joseph L.			
	Melnick, Ernest	t Jawetz, Edward A. A	Adelberg - Jawetz, Melnik	
	Adelberg's Medical Microbiology – 26-th edition, McGraw-Hill			
	Professional Ed., 2013			
	2. Carmen Costa	che, Monica Junie,	Ioana Colosi. Medical	
	bacteriology and	d medical virology. Edi	tura Medicală Universitară	
	"Iuliu Haţieganu", Cluj Napoca, 2017			
	3. Monica Junie, Carmen Costache (Trad). Basic Bacteriology and			
	Virology. Editura Medicală Universitară "Iuliu Hațieganu" Cluj-			
	Napoca, 2011			
	4. Carmen A.Costache, Ioana A.Colosi, Madalina A. Bordea.			
	Laboratory works for Microbiology. Editura Medicală			
	Universitară "Iuliu Haţieganu", Cluj Napoca, 2019			
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the	70%	15%	15%	
final grade:				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"			
postgraduate studies	Cluj-Napoca			
Faculty	Dental Medicine			
Domain of study	Health			
Academic degree	Dental Medicine in English			
Level of course	I and II- License and masters			
Qualification	Doctor of Dental Medicine			
Department	3 Oral Rehabilitation			
Discipline	Periodontology			
Cours title	PERIODONTOLOGY			
Responsible for lecture	Lecturer Dr. Ștefan Adrian Petruțiu			
Responsible for practical	Lecturer Dr. Stefan Adrian Petrutiu			
activity	Vacant SL 22			
	Vacant AS 40			
The formative category of	DS			
the discipline				
Compulsory discipline	Compulsory			
Year Sem hours/week	hours/semester Total Credits Type of			

		С	LP/S	С	LP/S	SI			Assessment
2	2	1	2	14	28	33	75	3	E

Pre-conditions	Basic knowledge of histology, physiology, microbiology
(Preliminary conditions)	Evaluation of clinical and microbiological parameters
Requisites for lectures	Amphitheater with projection system/ Online virtual system
and practical activities	Preclinical laboratory with specific equipment for the practical
	activity

Professional competences	 Ability to identify the clinical signs of periodontal inflammation Ability to identify the clinical signs of periodontal destruction Ability to interpret and use the results of the microbiological testing Ability to analyze the clinical data in correlation with the complementary investigations Ability to advice the patient on the improvement of their oral hygiene status and how to decrease the inflammation
Transversal competences	 Application of theoretical knowledge in clinical practice Determination of interdisciplinary correlations of the studied fields
General objectives	Provide the necessary data to identify the signs and symptoms associated with specific periodontal affections and their type of quantification
Specific objectives	 Provide the theoretical knowledge about periodontal entities semiology Provide the necessary knowledge for clinical application of the above notions Provide the necessary knowledge for pain management of the periodontal patient Provide the knowledge necessary for the development of communication skills with periodontal patients Practice the bibliographic documentation skills

	LECTURES			
Teaching methods	Lectures, Power point presentations, Interactive lecture			
Content	1. Periodontology – history, terminology, medical concepts in periodontal medicine			
	2. Clinical signs in gingival diseases			
	3. Symptomatology of gingival diseases			
	4. Recognition of some signs and symptoms of deep periodontal			
	destruction			
	5.Local vs. systemic inflammatory status. Oral signs, symptoms and			
	correlation with systemic changes			
	6.Periodontal signs and symptoms in pregnancy, Down syndrome			

	7.Drug induced gingival enlargement: signs and symptoms				
	8. Gingival bleeding as symptom of periodontal disease				
	9. Pain as symptom of periodontal disease				
	10. Aesthetic changes- reason for periodontal consult				
	11. Other symptoms for patient presentation to the periodontist: tooth				
	migration, mobility, fear of teeth loss				
	12. Appreciation parameters of quality of life changes in the periodontal				
	diseased patient before, during and after treatment				
	13.Symptoms and signs associated with lack of attached gingiva				
	14.Periodontal signs and symptoms of the patient with gingival				
	recessions.				
	PRACTICAL ACTIVITIES				
Teaching	Power-point presentations, lectures, interactive discussions				
methods					
Practical	Preclinical activities on specific study models, observational interactive				
activity carried	discussions. Practical exercises to recognize instruments, disease signs				
out by students	and symptoms and inclusion in the clinical entity.				
Content	1. Healthy periodontium – assessment on clinical cases, elements				
	of clinical evaluation				
	2. Gingival inflammation – signs and symptoms				
	3. Recognition of symptoms and signs of non-plaque induced				
	gingivitis.				
	4. Recognition of differential symptoms and signs between plaque				
	induced and non-plaque induced gingivitis.				
	5. Clinical evaluation of signs associated with the lack of attached				
	gingiva 6 Pariodontal probas Description comperative recognition				
	6. Periodontal probes. Description, comparative recognition, advantages and disadvantages				
	7. Instruments used for supra-gingival and sub-gingival scaling				
	8. Instruments used for supra-gingival and sub-gingival scaling				
	Maintenance care of periodontal sargery Maintenance care of periodontitis patients. Primary and				
	secondary prophylaxis of periodontal disease				
	10. Maintenance of the diabetes patients with gingivitis.				
	Maintenance plans				
	11. Recapitulation of the signs and symptoms encountered in				
	periodontal disease				
	12. Medication used for pain and gingival bleeding management				
	13. Clinical appreciation of aesthetic modification in				
	periodontology				
	14. The evolution of signs of symptoms after periodontal treatment				
Bibliography	1. Roman A, Lazar L, Surlin P, Stratul SI. Parodontologie 1. Notiuni de				
	baza. Ed Med Univ Iuliu Hatieganu 2019 (ISBN 978-973-693-901-3).				
	2. Roman A, Soancă A, Petruțiu SA, Condor D, Cioban C.				
	Parodontologie 2. Ghid de tratament. Ed Med Univ Iuliu Hatieganu				
	2018 (ISBN 978-973-693-766-8)				

	3. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman and Carranza's Clinical Periodontology, 13th Edition, Elsevier, 2018 4. Lang NP, Berglundh T, Giannobile WV, Sanz M(Eds). Lindhe's Clinical Periodontology and Implant Dentistry, 7th Edition, Wiley-Blackwell, Munksgaard, 2021(ISBN: 978-1-119-43888-5)			
Evaluation:	Written exam	Activity during the semester:		
Percent of the final grade:	50%	40%	10%	

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental Medicine					
Doma	in of st	udy		Health	Health				
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			4 Prost	hetic Den	tistry and	d Dental I	Materials	
Discipline			Dental Propedeutics and Esthetics						
Cours	Cours title			MEDICAL PRACTICE					
Responsible for lecture			Lecturer Dr. Cristina Gasparik						
Responsible for practical			-						
activit	y								
The fo	rmativ	ve catego	ry of	DS					
the dis	scipline	e							
Comp	Compulsory discipline			Compulsory					
* 7		hours	/week	ho	ours/semester T + 1	G 11.	Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	2	0	40	0	160			2	С

Pre-conditions (Preliminary	-
conditions)	
Requisites for lectures and	Attendance – 100%
practical activities	Lab coat and scrubs
	Completion of required tasks

Professional	Medical practice activities in general medicine units			
competences	Medical practice activities in dental medicine units			
Transversal	Ability to work in a team during therapeutic procedures			
competences				
General	Acquiring knowledge on working in general medicine units and			
objectives	dental medicine units			
Specific	Knowledge on working in general medicine units and dental			
objectives				

medicine units, the patients', and dental instruments' circuits
• Learning and exercising the examination of patients, elaboration of
the patient chart.
• Learning notions regarding preparation of the instruments for
disinfection and sterilization and regarding instrument sterilization.
• Knowledge about specific instruments used in the medical unit
where the student goes for summer medical practice.

	PRACTICAL ACTIVITIES				
Teaching					
methods					
Practical	1. Knowledge of the structure and functioning of the medical unit				
activity carried	2. Knowledge of the medical records and documents used in the medical				
out by students	unit				
	3. Knowing and applying the medical attributes of the nurses regarding receiving, registering, and preparing the patients for the clinical examination				
	4. Development of communication skills with the patient: patient				
	history, informing and educating the patient. Development of special communication skills according to sex, age, childhood, incurable,				
	terminally ill or non-cooperating patient. Communicating with the patient's family.				
	5. The preparation of medical instruments: washing, degreasing, syringe				
	and needle control, sterilization, the maintenance, and route of sterile				
	materials				
	6. Knowing and applying the attributes of the nurse regarding the				
	maintenance of hygiene norms in the medical unit				
	7. Elementary sterilization practices: chemical sterilization, steam				
	sterilization, modern techniques of sterilization.				
	8. Development of clinical examination skills: physical examination,				
	palpation, auscultation, percussion, and special examination techniques: (measuring blood pressure, temperature, pulse)				
	9. Recognizing the specific instruments for oral examination				
	10. Recognizing the specific instruments for dental treatments performed in the dental office				
	11. Basic knowledge on the dental unit: components, action, and				
	accurate position of the patient and of the physician.				
	12. The disinfection of the dental office.				
	13. Knowledge of the protection methods against infectious diseases in				
	the dental office.				
	14. Basic patient care procedures				
	15. The knowledge of notions regarding the dental instruments'				
	preparation for disinfection and sterilization.				
	16. The preparation of dental materials for impressions, fillings				
	17. Completion of medical charts				
	18. Elaboration of treatment plans				

Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	-	100%	-

Institution for graduate and				University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgr	aduate	studies		Cluj-Napoca					
Facult	t y			Dental	Medicine	;			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and II	- License	and ma	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Dental Propaedeutics and esthetics					
Cours	title			DENTAL TECHNOLOGY					
Respo	nsible	for lectu	re	Lecturer Dr. Cristina Gasparik					
Respo	nsible	for pract	ical	Lecture	er Dr. Cris	stina Ga	sparik, As	sist. Dr. D	elia Moise,
activit	y			Assist. Dr. Amelia Boitor					
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	2							
Comp	ulsory	disciplin	e	Compu	lsory				
	Sem	hours	/week	ho	urs/semes	ter			Type of
Year		С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	2	4	28	56	66	150	6	Е

Pre-conditions	Basic notions of Anatomy, Dental Morphology, Dental Materials		
(Preliminary	Ability to identify anatomic parts of the head and face, practical		
conditions)	skills for reproduction of tooth morphology using dental materials		
Requisites for	Attendance – minimum 70% of lectures		
lectures and	Attendance – 100% of practical activities		
practical activities	Lab coat and scrubs		
	Completion of required tasks		

-	
Professional	Ability to use specialized terminology, properly and in context
competences	 Accumulation of basic knowledge related to fixed dentures
	• Knowledge of technological steps that are used in the dental office
	and dental laboratory in manufacturing fixed dental prostheses (cast
	metal crowns, porcelain fused to metal crowns, all-ceramic crowns,
	composite resin crowns)
	• Acquiring general principles in making fixed partial dentures (FPD).
	The fabrication technology in metal-ceramic FPDs by casting-
	sintering processes, heat-pressing processes, computerized milling
	Knowledge of current variants for manufacturing ceramic bridges
	CAD CAM technique, heat-pressing, and combined methods.

TD 1	
Transversal	Ability to use the information in a new context
competences	Ability to apply the theoretical knowledge on a practical basis.
	Ability to establish connection between the studied subjects.
General	Acquiring information related to specific technological processes
objectives	involved in the fabrication of the most common types of fixed
	dentures
Specific	Accumulation of basic knowledge related to the classification of
objectives	fixed dentures
	• Introduction to specific preparations for various types of fixed
	prosthesis in relation with the fabrication technology
	Acquiring information regarding general steps in the fabrication of
	cast metal crowns, mixed crowns, esthetic crowns
	Understanding the biomechanical, bio functional and prophylactic
	principles in making each type of denture.

	LECTURES					
Teaching	Interactive presentations, inquiry-based learning					
methods						
Content	1. Introduction into prosthodontics and technology: classification of					
	fixed and removable dentures; types of restorations by fabrication					
	technology and materials used; laboratory steps in the fabrication of an					
	indirect restoration.					
	2. Preliminary data needed for dentures fabrication: preparation of					
	dental substrate for full coverage restorations. Particularities in the tooth preparation for a cast metal crown and a metal-ceramic crown.					
	3. Dental impressions in fixed prosthodontics, requirements, materials, techniques, advantages, and disadvantages; the alginate impression; the					
	impression of the working arch; the bite registration. Verification of the impression.					
	4. Casts in fixed prosthodontics: requirements of materials used for					
	dental casts, types of casts; the diagnostic cast, the master cast; casts					
	with removable dies- the Pindex method; the Zeiser method; the Willi					
	Geller dental cast.					
	5. Articulators – types and characteristics; face bows; mounting of the					
	casts on a semi-adjustable articulator; mounting of the casts on a fully-adjustable articulator.					
	6. Wax pattern fabrication for metal restorations; requirements of					
	materials used for patterns, waxing techniques, characteristics of wax					
	patterns.					
	7. Preparation of the wax pattern for investing; investing the wax					
	pattern, burnout and casting the metal alloys: casting machines,					
	principles; cleaning the cast. Defects in the casting, causes and remedies.					
	Finishing the cast restoration.					
	8. The metal-ceramic crown – laboratory steps; characteristics of the					
	metal coping, preparation of the coping for the ceramic layering;					

	ceramic layering concepts and techniques.						
	9. The full-ceramic crown – classification of ceramic appliances by						
	material and fabrication technology; monolithic crowns, veneered						
	crowns; the refractory die technique; the heat press technique, the cad-						
	cam technique; combined methods.						
	10. The composite resin crowns - laboratory steps; composite layering						
	concepts and techniques.						
	11. Inlays, onlays, veneers, post, and core restorations – laboratory						
	steps, materials, techniques.						
	12. The fixed partial denture – classification of the partially edentulous						
	arches, general principles in the fabrication of fixed partial dentures						
	13. The metal-ceramic bridge –laboratory steps; particularities of the						
	metal framework, veneering techniques.						
	14. The full-ceramic bridge –laboratory steps; particularities of the						
	framework, veneering techniques; the monolithic bridge.						
The sealest	PRACTICAL ACTIVITIES						
Teaching	Interactive presentations, live and video demonstrations, inquiry-based						
methods	learning, flipped classroom, role-play						
Practical	Practical activities performed on the simulation unit, Practical activities						
activity carried	performed on the dental casts; seminars						
out by students Content	1 Cto and for full converse restauctions. Instruction on the use the						
Content	1. Stages for full coverage restorations. Instruction on the use the						
	simulation unit; exercises for the use of the high-speed hand piece 2. Preparation of dental substrate for full coverage restorations – the						
	metal crown- objectives and technical steps. Information needed for the						
	laboratory.						
	3. Preparation of dental substrate for full coverage restorations – the						
	metal-ceramic crown -objectives and technical steps. Information						
	needed for the laboratory.						
	4. Making of an alginate impression of the dental arch; making a						
	silicone impression						
	5. Pouring an impression in plaster – the solid cast; making a master cast						
	- the Willi Geller dental cast; mounting of the casts on an articulator						
	6. Waxing techniques – the functional waxing; revision						
	7. Fabrication of a wax pattern for the metal crown;						
	8. Fabrication of a wax pattern for the metal-ceramic crown; Preparation						
	of the wax pattern for investing; investing and casting; finishing of the						
	restoration - demonstration						
	9. Fabrication of a wax pattern for the full-ceramic crown (for the heat-						
	press technique)						
	10. Fabrication of wax patterns for inlays, onlays; Ceramic layering;						
	heat-pressing of ceramic - demonstration						
	11. Fabrication of a wax pattern for the metal framework of a metal-						
	ceramic bridge						
	12. Fabrication of a wax pattern for a full-ceramic bridge (heat-press						
	technique) – pontic designs						

	13. Fabrication of a wax pattern for a full-ceramic bridge (heat-press				
	technique) - continuat	ion			
	14. Revision				
Bibliography	1. Gasparik C. – Sylabus on Dental technology -2021.				
	2. Shillingburg H.T.& all – Fundamentals of Fixed Prosthodontics.				
	Quintessence Pul	olishing, Illinois, 2012.			
	3. Rosentiel S.F,	Land M, Fujimoto J.	 Contemporary Fixed 		
	Prosthodontics. N	Mosby Inc., St. Louis, 201	5.		
		Esthetics in Dentistry, 3 rd	•		
	5. Johnson T, Patri	ck DG, Stokes CW, Wil	dgoose DG, Wood DJ -		
	Basics of Dental 2015.	I Technology: A Step by	Step Approach. Wiley,		
	•	er W - Esthetic and Restor chnique. Quintessence, 20	•		
	7. Duarte S - Quintessence of Dental Technology 2020. Quintessence, 2020.				
		essence of Dental Technol	logy 2019 Quintessence		
	2019.		iogy 20131 Quintessence,		
	9. Duarte S - Quintessence of Dental Technology 2018. Quintessence,				
	2018.				
Evaluation:	Written exam				
	semester:				
Percent of the	50% 25% 25%				
final grade:					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and I	I- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			12 Med	dical educ	ation			
Discipline			Sport						
Cours	title			PHYSICAL EDUCATION					
Respo	nsible	for lectu	re	-					
Respo	nsible	for pract	ical	Associate professor PhD Mihai Ludovic Kiss					
activit	y								
The fo	rmativ	e catego	ry of	DC					
the dis	scipline)							
Compulsory discipline			Compulsory						
***	Sem	hours/week	/week	ho	urs/semes	ter			Type of
Year		C	LP/S	C	LP/S	SI	Total Credits	Credits	Assessment
2	1, 2	0	1+1	0	14+14			2	С

Pre-conditions	Minimal motricity skills after graduating the high school				
(Preliminary					
conditions)					
Requisites for	Students will not attend practical courses / activities with open mobile				
lectures and	phones. Also, telephone conversations will not be tolerated during the				
practical	course or practical activities, nor do students leave the gym to take				
activities	personal phone calls (emergency only).				
	Food and beverages are not allowed during the practical activities.				
	It will not be tolerated the students' delay in the practical activities as				
	it proves to be disruptive to the educational process. Students will be				
	equipped according to the specificity of physical education.				
	Students will display an appropriate attitude towards the teaching				
	process, teaching materials, teachers and colleagues.				

Professional • Formation of future doctors, family doctors according to						
competences	concepts regarding the optimization of the lifestyle of the population, based on the systematic practice of physical activities and exercises.					
Transversal	rippijing certain notions and shirts acquired in daily activities					
competences	Forming a healthy lifestyle by exercising regularly					
	• Self-development and continuous adaptation to new physical activities					
General objectives	Maintaining an optimal state of health by forming the habit of systematic practice of physical exercises					
Specific objectives	 Outline knowledge of the importance of training and systematic exercise of physical exercises in order to maintain optimal health. Înțelegerea și aplicarea deprinderilor de practicare a exercițiilor fizice de menținere a sănătății în timpul liber. Formarea capacității și obișnuinței de practicare sistematică a exercițiilor fizice ca o componentă de bază a stilului de viață favorabil sănătății ("Mens sana in corpore sano"). Knowledge of certain aspects regarding the prevention and correction of deficient attitudes and recovery of certain post-traumatic sequelae and those caused by some diseases. Knowledge of the terminology specific to the activity of physical education and certain sports. Development and cultivation of aesthetic sense and the formation of a positive attitude towards artistic activities. 					

PRACTICAL ACTIVITIES				
Teaching	Lecture, explanation, demonstration			
methods				
Practical				
activity carried				

out by students					
Content	1. General physical development				
	2. Corrective and recovery physical activities (sports activities that				
	require low physical e	effort)			
	3. General notions abo	out the game of basketball			
	4. General notions abo	out the game of volleyball	olleyball		
	5. General notions abo	out the game of football			
	6. General notions abo	out ball-room dance			
		out aerobic, Tabata and othe	er specific body		
	trainings				
		out fitness, bodybuilding			
		out table tennis, badminton	moll anounc		
		s with different objects in s	man groups		
	11. Workshops – gene	oout chess, schi-tourism			
			1 aymnactics		
	13. General notions regarding elements of medical gymnastics 14. Final evaluation				
Bibliography	Popovici Cornelia, Kiss Mihai, David Sergiu, Kollos Ciprian,				
Dibliography	Fotbal – caiet de lucrări practice 2020				
			ia David Sergiu Volei		
	2. Kiss Mihai, Kollos Ciprian, Popovici Cornelia, David Sergiu, Volei – Caiet de lucrari practice, 2019				
	3. Kollos C., Kiss M.L., Popovici C., David S., Baschet – Caiet de				
	lucrări practice, 2017				
	4. Kiss Mihai Ludovic, Popovici Cornelia - Dans de societate – caiet				
	de lucrări practice, 2017				
	· -	lucrări practice: Culturism			
	6. C. Suciu, Îndreptar de lucrări practico-metodice, 2013				
	7. Regulamentele ramurilor de sport practicate				
Evaluation:	Written exam Practical exam Activity during the				
	semester:				
Percent of the					
final grade:	le:				

3RD YEAR

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	7 Surgery
Discipline	Surgery clinic IV
Cours title	GENERAL SURGERY

Respo	nsible	for lectu	re	Assoc. Prof. Dr. Sorin T. Barbu					
Responsible for practical			Lecture	Lecturer Dr. Traian Oniu					
activity									
The formative category of			DS	DS					
the di	scipline	e							
Compulsory discipline			Compu	lsory					
**		hours/week		Но	urs/semes	ster	7 7. 1	G 11.	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	1	2	1	28	14	8	50	2	E

Pre-conditions	Students attending the course need to have successfully accomplished					
(Preliminary	the courses of pathology, physiopathology and medical semiology.					
conditions)						
Requisites for	Students must be in time for the lectures. Use of mobile phone during					
lectures and	the lectures is not accepted, being a disruptive issue.					
practical	Students must be in time for the clinical practice sessions. Use of					
activities	mobile phone during the sessions is not accepted, being a disruptive					
	issue.					

•	·				
Professional	At the end of the course, students are expected to be able to:				
competences	 demonstrate in depth knowledge of surgical semiology, starting with asepsis and antisepsis, hemorrhage and hemostasis, treatment of wounds and surgical infections, first aid maneuvers in trauma, burns, fractures, and ending with hemorrhagic shock and cardiovascular resuscitation. to discuss general notions about local, regional, general anesthesia, organ transplants, general oncology and principles of surgical treatment in cancer. Students who successfully complete the second part of the course (surgical diseases), are expected to be able to: demonstrate the clinical skills and methods required to clinically define common surgical diseases. Students will have the ability to adopt a problem solving approach to common surgical diseases. 				
	At the end of the Clinical Practice, students are expected to be able to present, discuss in detail (indications, technique, accidents, complications) and to perform: • injections, bandages, wound dressing, urinary bladder catheterization, gastric tube insertion, pleural and peritoneal punctures, biopsies; • first aid maneuvers in trauma, wounds, fractures, burns, surgical infections;				

	 demonstrate appropriate skills to conduct comprehensive clinical examination of surgical patients. demonstrate the appropriate ways to identify physical signs of common surgical diseases. formulate a reasonable differential diagnosis of surgical problems based on history and physical examination. demonstrate a basic knowledge of common and urgent surgical problems.
Transversal competences	 Theoretical notions and practical maneuvers learned during the General Surgery course and practical sessions will be used in future disciplines, specifics for dental medicine (maxillofacial surgery, anesthesiology, internal medicine) Correlations between different clinical courses are expected to be established. Skills for communication with the patient.
	 Skills for examination of a patient. Appropriate use of information technology for obtaining medical information. Involvement in research activities (e.g. writing a medical paper)
General objectives	 At the end of the course, students are expected to be able to demonstrate in depth knowledge of surgical semiology to demonstrate the clinical skills and methods required to clinically define common surgical diseases students will have the ability to adopt a problem solving approach to common surgical diseases.
Specific objectives	 At the end of the course, students are expected to be able to: demonstrate in depth knowledge of surgical semiology, starting with asepsis and antisepsis, hemorrhage and hemostasis, treatment of wounds and surgical infections, first aid maneuvers in trauma, burns, fractures, and ending with hemorrhagic shock and cardiovascular resuscitation. to discuss general notions about local, regional, general anesthesia, organ transplants, general oncology and principles of surgical treatment in cancer. Students who successfully complete the second part of the course (surgical diseases), are expected to be able to: demonstrate the clinical skills and methods required to clinically define common surgical diseases. Students will have the ability to adopt a problem solving approach to common surgical diseases.
	At the end of the Clinical Practice, students are expected to be able to present, discuss in detail (indications, technique, accidents,

CO	 injections, bandages, wound dressing, urinary bladder catheterization, gastric tube insertion, pleural and peritoneal punctures, biopsies; first aid maneuvers in trauma, wounds, fractures, burns, surgical infections;
	 demonstrate appropriate skills to conduct comprehensive clinical examination of surgical patients.
	 demonstrate the appropriate ways to identify physical signs of common surgical diseases.
	 formulate a reasonable differential diagnosis of surgical problems based on history and physical examination.
	• demonstrate a basic knowledge of common and urgent surgical problems

	LECTURES					
Teaching	Theoretical lectures are exposed as Power Point interactive					
methods	presentations, in a problem-based approach. Short videos					
	illustrating maneuvers or surgical techniques may be inserted into					
	the presentation					
Content	1. Asepsis and antisepsis; sterilization, disinfection and operating room					
	set-up. Wounds and wound healing. Skin and subcutaneous tissue					
	wounds.					
	2. Hemorrhage, hemostasis. Blood products and transfusion. Shock and					
	metabolic response to injury.					
	3. I.V. Fluids and acid base disorder; Nutrition of the surgical patient.					
	Cardio-pulmonary resuscitation.					
	4. Introduction to Anesthesiology (local, regional and general					
	anesthesia)					
	5. Surgical infections and antibiotics. Injuries due to burn; Fractures.					
	6. Introduction to mechanisms of trauma and treatment Specific organ					
	trauma					
	7. Principles of surgical oncology. Organs and tissues transplantation.					
	8. Surgical diseases of the thyroid (tiroiditis, goiter, cancer of the					
	thyroid). Breast cancer. Acute mastitis					
	9. Vascular surgical diseases: a - arteries (atherosclerotic disease, acute					
	ischemia); b - veins (varicose veins, acute thrombosis)					
	Abdominal wall hernias.					
	10. Acute and chronic abdominal pain; Peritonitis. Intestinal occlusion.					
	Acute appendicitis.					
	11. Surgical diseases of the oesophagus (achalasia, esophageal cancer,					
	hiatal hernia)					
	Surgical diseases of the stomach: peptic ulcer disease – complications;					
	gastric cancer;					
	Gastrointestinal hemorrhage (upper and lower)					
	Oustromestinal nemorriage (upper and lower)					

	12. Surgical diseases of the liver (hydatid cyst, liver tumors)					
	Biliary stones; biliary obstruction;					
	Obstructive jaundice					
	13. Pancreatic diseases (acute and chronic pancreatitis, pancreatic					
	cancer)					
	Surgical diseases of the colon and rectum (ulcerative colitis, colorectal					
	cancer)					
	Perianal diseases (hemorrhoids, fistula in ano, perianal abscesses)					
	14. General Urology. Urinary infections; renal stones; renal cancer					
	PRACTICAL ACTIVITIES					
Teaching	Practical demonstration with interactive discussions.					
methods						
Practical	Students will have to recognize surgical instruments, to perform wound					
activity carried	dressing and bandages, sutures and all maneuvers demonstrated by					
out by students	instructor on a mannequin.					
Content	1. Asepsis and antisepsis; sterilization, disinfection and operating room					
	set-up. Surgical equipment, the operating room. Surgical instruments.					
	Wound dressing technique. Bandages.					
	2. Surgical suture; suture materials. Wounds treatment.					
	Hemorrhage, hemostasis. Blood products and transfusion.					
	3. Injections; venous catheterization; perfusions; I.V. Fluids and					
	solutions.					
	How to take blood and urine samples for laboratory tests					
	4. Local anesthesia (drugs, technique); Regional anesthesia;					
	Oxygen-therapy; tracheal intubation; tracheostomy.					
	5. Surgical infections treatment – surgical drainage, percutaneous					
	drainage.					
	First aid measures in burns and trauma					
	6. Cardio-pulmonary resuscitation (basic life support)					
	Enteral and parenteral nutrition in the surgical patient – indications,					
	technique, complications.					
	7. First aid treatment in fractures.					
	Gastric drainage, gastric lavage;					
	Urinary bladder catheterization.					
	8. Rectal examination; enemas.					
	Pleural puncture and pleural drainage.					
	9. Peritoneal puncture – examination of the peritoneal liquid.					
	Biopsies.					
	10. Monitoring of the surgical patient in critical condition.					
	Postoperative complications in surgery					
	11. Laboratory and imagistic methods used in surgical patients					
	12. Taking history and performing a physical examination in a surgical					
	patient.					
	13. Formulating a diagnosis according to the physical examination					
	results, and laboratory and imagistic findings.					
	14. Taking history and performing a physical examination in a surgical					
	garage ga					

	patient.						
	Formulating a diagnosis according to the physical examination results,						
	and laboratory and imagistic findings.						
Bibliography	1. David L Dunn et all, editors. Schwartz's Principles of Surgery, 11 th						
	Edition. New Yor	rk: Mc Graw Hill, 2019.					
	2. Bongard FS, Star	nos MJ, Passaro E Jr, editor	s. Surgery: A Clinical				
	Approach. New Y	York: Churchill – Livingston	ne, 2017.				
	3. Greenfield LJ, Mulholland editor. Greenfield's Surgery: scientific						
	principles and practice (monografie pe CD-ROM). LWW 2016.						
	4. Sabiston DC Jr, editor. Sabiston Textbook of Surgery, 17 th edition.						
	Philadelphia: W B Saunders Company, 2007.						
	5. A. Agarwal, N. Borley, L. McLatchie editors. Oxford Textbook of						
	operative Surgery. Oxford University Press, 2017.						
Evaluation:	Written exam Practical exam Activity during the						
	semester:						
Percent of the	50%	40%	10%				
final grade:							

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca						
Facult	t y			Dental	Dental Medicine					
Doma	in of st	udy		Health	Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish			
Level	of cour	se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medicii	ne			
Depar	tment			9 Moth	er and ch	ild				
Discipline			Obstetrics and Gynecology I							
Cours title			GYNECOLOGY							
Responsible for lecture			Lecturer Dr.Caracostea Gabriela							
Responsible for practical			Lecture	Lecturer Dr.Caracostea Gabriela, Lecturer Dr.Surcel						
activity			Mihai	Mihai						
The fo	The formative category of			DR						
the dis	the discipline									
Compulsory discipline		Compulsory								
			hours/week	ho	urs/semes	ter			Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total Cred	Credits	Assessment	
3	1	1	1	14	14	22	50	2	Е	

Pre-conditions	Knowledge regarding Anatomy and Physiology from first and			
(Preliminary conditions)	second year of faculty			
Requisites for lectures	Video projection amphitheater			
and practical activities	Protection materials			

competences	 Interdisciplinary synthesis capacity development in order to comprehend and knowledge how to provide special care for pregnant women Assimilation of general information regarding pregnancy induced conditions Assimilation of general information regarding gynecological conditions 						
Transversal	Use of assimilated information in new contexts						
competences	Application of theoretical concepts in the practical activity						
	Interdisciplinary correlations within the study domains						
General	Knowledge regarding special obstetrical and gynecological features						
objectives	useful for the dentist in the daily practice						
Specific objectives	Assimilated knowledge regarding the emergency conditions during pregnancy						
	Assimilated knowledge regarding the most important gynecological conditions						
	Assimilated knowledge regarding the oncologic screening in gynecology						
	Exercising the synthesis ability and bibliographical research						

	LECTURES						
Teaching	Interactive systematic lectures						
methods	Power-Point oral presentations						
Content	Diagnosis of pregnancy. Antepartum care						
Content	2. High risk pregnancy – details important for the well-being of the						
	pregnancy						
	3. Labor mechanisms						
	4. Normal labor in the occiput presentation						
	• •						
	5. Antepartum bleeding (Causes of hemorrhage during the first of						
	pregnancy)						
	6. Details concerning the main causes of hemorrhage during pregnancy:						
	spontaneous abortion, ectopic pregnancy, molar pregnancy						
	7. Antepartum bleeding (Causes of hemorrhage during the second half						
	of pregnancy)						
	8. Details concerning the main causes of hemorrhage during pregnancy: placenta praevia, abruptio placentae, uterine rupture and vasa praevia						
	9. Third and fourth period of birth — details about normal puerperium and its complications.						
	10. Maternal and fetal obstetrical trauma – details about the traumatic						
	complications of labor upon the mother and the fetus						
	11. Uterine myomas – incidence, physiopathology, specific						
	management						
	12. Cervical neoplasia - incidence, physiopathology, specific						
	management						
	13. Female sterility– causes, symptoms						

	14. Methods of investigation, therapeutic posibilities					
PRACTICAL ACTIVITIES						
Teaching	Interactive teaching activities.					
methods	_					
Practical	Participation during pr	ractical examinations				
activity carried						
out by students						
Content	1. Gynecological example 1. Gynecological example 1.					
	2. Obstetrical examination					
	3. Ectopic pregnancy					
	•	on – case presentation				
	5. Normal puerperium					
	6. Pathologic puerper					
	7. Malign tumors - Ce	ervical cancer - presentation	on of the most frequent			
	cancers					
		varian cancer - presentati	on of the most frequent			
	cancers		4. 4			
		pregnancy –most frequen				
	10. Oral health during pregnancy – case presentation					
	11. Placenta praevia –					
	12. Placental abruptio					
	13. Ovarian cysts – ca	•				
7		rhea – case presentation	2015 20ml 1			
Bibliography	1. Merali Z, Woodfine JD(eds). Essential MedNotes 2016. 32 nd ed.					
	Toronto Notes for Medical Students, Inc, Toronto, 2016.					
	2. Florin Stamatian					
	Obstetrică și Ginecologie. Obstetrică, vol.1 Editura Medicală					
	Universitară "Iuliu Hațieganu" Cluj-Napoca, 2014					
	Obstetrică și Ginecologie. Obstetrică, vol.2 Editura Medicală Universitară India Denne Color Normana 2014					
	Universitară "Iuliu Haţieganu" Cluj-Napoca, 2014					
	Obstetrică și Ginecologie. Ginecologie, vol.3 Editura Medicală Universitară India Universitară India Indi					
Evaluation:	Universitară "Iuliu Hațieganu" Cluj-Napoca, 2014 Written even Practical even Activity during the					
Evaluation:	written exam	Written exam Practical exam Activity during the semester:				
Percent of the	50%	50%	Series ver			
final grade:	- 30 /0					
imai gi auc.						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	5 Internal Medicine

Discipline			Medical clinic IV						
Cours title			INTERNAL MEDICINE						
Respo	nsible f	for lectu	re	Lectur	er Călin	Vasile V	lad		
Responsible for practical			Lecture	er Călin V	asile Vla	ad			
activit	\mathbf{y}			Lecture	er Teodora	a Gabrie	la Alexes	cu	
				Lecture	er Assista	nt Mirce	a Vasile N	Milaciu	
			Lecturer Assistant George Ciulei						
				Assistant Professor Vacancy 130					
			Assistant Professor Vacancy 130						
The formative category of			DS						
the dis	the discipline								
Comp	Compulsory discipline			Compu	lsory				
	hours/week		ho	urs/semes	ter	T 1 0 11		Type of	
Year	Sem	em C LP/S C LP/S SI	SI	Total	Credits	Assessment			
3	1	2	2	28	28	44	100	4	E

Pre-conditions	Notions of anatomy, physiology, physiopathology and
(Preliminary conditions)	biochemistry
Requisites for lectures	Amphiteheatre with projection system
and practical activities	Patient rooms with beds

Professional competences	Capacity of using the semiologic terminology in specific situations and diagnostic algorithm						
_	Capacity of communication with the medical community						
	Critic evaluation, synthesis of disease manifestations						
	• Learning the techniques of examining the patient						
	• Gathering experience in using the medical instruments (eg. Stethoscope)						
	Correct interpretation of paraclinic examinations						
	• The capacity to integrate the anamnestic findings, the objective data and						
	the paraclinic data in the syndrome diagnosis						
	Development of the medical rationale						
	• Learning notions needed to apply prevention in the stomatology field						
	Making the correct diagnosis of an emergency in the stomatology cabinet						
Transversal	Being able to apply the new findings into their future job routine						
competences	Applying the new theoretical knowledge in practical activity						
	Making new correlations in various fields						
General	Presenting the semiology data regarding the symptoms, signs,						
objectives	explorations, in order to create the correct clinical picture and to						
	formulate the correct syndrome diagnosis						
	Creation of a precise, consistent and useful medical language						
Specific	• Learning the correct technique of anamnesis and clinical examination,						
objectives	conducting the future investigations and formulating the syndrome						
	diagnosis						

• Development of the medical rationale for each case

	LECTURES
Teaching	Lecture, Systematic and Interactive Presentation
methods	
Content	1. Introductory course. General notions of semiotics, symptom, sign, syndrome, diagnosis. Patient records, disease history. Particularities of the anamnesis in dental pathology
	Clinical examination. Methods of examining the patient. Face, attitudes, constitution
	3. Clinical examination. Skin, mucous and membrane colour changes and lesions; oedema. The importance of clinical examination in dentistry.
	4. Respiratory tract semiotics. Main symptoms: chest pain, dyspnea, cough, expectoration and haemoptysis. Physical examination of the respiratory system. Lab explorations in respiratory diseases.
	 Respiratory tract semiotics. Pulmonary condensation syndrome. Pleural fluid syndrome. Bronchitis syndrome. Mediasinal syndrome.
	 Cardio-vascular semiotics. Symptoms: chest pain and vascular pain, cardiac dyspnea, palpitations. Physical examination of heart and vessels. Additional examinations in cardiovascular diseases.
	7. Cardio-vascular semiotics. Coronary syndrome. Valvular syndromes. Heart failure syndromes. Thrombotic syndromes. Rhytm and conduction disorders. Hypertension and hypotension semiology. Shock and syncope.
	8. Reno-urinary semiotics. Main symptoms: pain, reno-uretheral colic, dieresis and micturition disorders. Examination of the urinary system. Additional examinations in urinary system diseases.
	9. Reno-urinary semiotics. Nephitic syndrome, nephritic syndrome, renal failure syndrome.
	10. Digestive semiotics. Particularities of the anamnesis in the mouth and throat diseases. Symptoms and signs of special importance for dentists: the oral cavity pain, gum bleeding, halitosis, salivary secretion disturbances, changes of taste. Examination of the mouth.
	11. Digestive semiotics. Esophageal semiotics: symptoms, signs, lab exploration and the esophageal syndrome. Stomach and duodenum semiotics: main symptoms – pain, appetite change, nausea, vomiting. Examination of the stomach and duodenum. Additional explorations. Ulcer dyspepsia. Upper digestive bleeding.
	12. Digestive semiotics. Intestinal semiotics: symptoms and signs –

	intestinal pain,intestinal obstruction, disorders of transit.					
	Abdominal examination in intestinal diseases. Additional					
	explorations in bowel diseases. Diarrhea syndrome.					
	Constipation syndrome. Acute peritonitis syndrome. Ano-recto-					
	sigmoidian syndrome.					
	13. Digestive semiotics. Liver and gallbladder semiotics:					
	symptoms and signs. Physical examination and additional					
	explorations. Jaundice syndrome. Ascites syndrome. Liver					
	failure syndrome. Pancreas and spleen semiotics: pancreatic					
	pain, general examination and additional explorations in					
	pancreas and spleen pathology.					
	14. Hematopoietic system semiotics. Symptoms and signs in blood					
	diseases. Sundromes, anemia, bleeding syndrome,					
	myeloproliferative syndrome and importance in dentistry					
	PRACTICAL ACTIVITIES					
Teaching	Practical teaching near the patient's bed					
methods	Theorem continues now the particular states					
Practical	Anamnesis, Clinical examination, Building a diagnosis					
activity carried	Thammesis, enimear examination, Building a diagnosis					
out by students						
Content	Patient records. Classical examination method, diagnosis of					
Content	_					
	acute or chronic disease and their importance in dental					
	medicine. Anamnesis techniques.					
	2. Physical examination techniques: inspection, palpations,					
	percussion and auscultation					
	3. Attitude. Face. Constitutional type. Nutritional status.					
	4. Pallor, cyanosis, particularly in the oral mucosa					
	5. Jaundice, dyschromatic features in the oral mucosa. Edema,					
	trophycity disorders, limph node pathology, febrile curve					
	6. Main breathing symptoms. Physical examination of the chest					
	7. Assesement of acute and chronic respiratory diseases.					
	Evaluation of a respiratory emergency – significance for the					
	dentist					
	8. Major cardiac symptoms. Physical examination of heart and					
	vessels.					
	9. Diagnosis of cardiovascular emergencies in dental surgery.					
	Complementary methods of investigation: blood pressure					
	measurement, electrocardiography					
	10. Evaluation of a valvular patient – significance for the dental					
	practice. Differential diagnosis significance in the coronary					
	chest pain.					
	11. Esophagus, stomach and bowel symptoms. Physical					
	examination. Dyspeptic syndromes.					
	12. Liver disease, bile duct and pancreatic symptoms and signs;					
	physical exam. Jaundice syndrome, ascites and the liver failure.					
	13. Characteristics of lumbar back pain, micturition and dieresis					

	disorders. Ph	ysical examination of the g	enitor-urinary system.				
		lrome – signs at the oral cav					
	syndrome – s	syndrome – signs at the oral cavity. Haemostasis assesement.					
	Emergency evaluation of a bleeding syndrome.						
Bibliography	1. The lecture						
	2. Sâmpelean Dore	el, Vlad Vasile-Călin, coord	onatori. Clinical				
	Semiology. Firs 2019.	t english edition. Editura Bi	oflux Cluj-Napoca,				
	3. D. Sâmpelean, sub redacția. MANUAL DE SEMIOLOGIE pentru Medicina Dentară Ediția a III-a. Ed. Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, 2018.						
	5. Bates' Guide to Physical Examination and History Taking. Lynn S.						
	Bickley. Lippincott Williams and Wilkins, 2016.						
Evaluation:	Written exam Practical exam Activity during the semester:						
Percent of the final grade:	50%	40%	10%				

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	Faculty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			2 Conse	ervative (Odontolo	gy		
Discip	line			Odonto	ology, End	lodontic	s and Ora	l Patholog	y
Cours title			ODONTOTHERAPY						
Responsible for lecture			Assoc. Prof. Ada Delean						
Responsible for practical			Vacant Lecturer 9						
activity			Vacant	Teach. A	ssist. 27				
			Assist.	Dr. Corin	a Ionesc	u			
				Assist.	Dr. Diana	Florea			
The fo	rmativ	ve catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
***			/week	ho	urs/semes	ter	- T	a	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	1	2	4	28	56	66	150	6	Е

Pre-conditions	Notions of tooth morphology and TMJ
(Preliminary conditions)	

Requisites for lectures and	Amphitheater with projection system
practical activities	Laboratories with specific facilities for the practical courses

Professional	The capacity of using the appropriate terminology
competences	To know the examination instruments and the instrument used for the
	preparation of different types of tooth cavities
	Knowing and choosing the proper direct odontotherapy methods
	indicated in different clinical situations
	Acquiring the notions of coronal restorations, through different
	methods and materials
	Developing the ability to synthesize in an interdisciplinary manner the
	notions of aesthetic and functional restorative methods to understand
	and restore the main functions of the dento-maxillary apparatus:
	mastication, swallowing, phonation, physiognomic function
	Improving the theoretical knowledge of cavity preparation and cavity
	filling, by model and phantom preparation
	Acquiring the practical experience needed to use the instruments and
	different materials to be able to perform coronal restorations
Transversal	Use of assimilated notions in new contexts
competences	Applying theoretical notions in the practical work
	Establishing interdisciplinary correlations within studied domains
General	• Knowledge of the clinical forms of tooth cavities, positive and
objectives	differential diagnosis, and treatment of a simple tooth cavity
Specific	Acquiring the notions of normal and pathological hard tooth structure
objectives	• Introduction of the notions of clinical dental examinations to establish
	a positive diagnosis
	Assimilation of the notions of the differential diagnosis and in which
	conditions is realised
	• Theoretical study of the dentinal plague and its treatment to restore
	damaged missing tooth structure and DMA functions
	Detailed study of cavity preparation steps and cavity preparation using
	non-physiognomic materials by working on artificial teeth on model or
	phantoms
	• Detailed study of cavity preparation steps and cavity preparation using
	physiognomic materials by working on artificial teeth on model or
	phantoms
	Developing the ability to apply the theoretical knowledge by preparing This to the ability to apply the theoretical knowledge by preparing
	and filling tooth cavities
	Performing references documentation

LECTURES		
Teaching Lecture, systematic interactive exposure methods		
Content	1. Instruments used in the treatment of the carious lesions. Manual and rotary instruments used for cavity preparation and cavity filling and for	

	finishing the restoration			
	2. Principles of cavity preparation for amalgam filling. Black classification			
	and Black cavity preparation steps- general notions			
	3. Class I and class II Black cavity preparation. Definition. Cavity			
	preparation steps and instruments used for preparation			
	4. Class III, IV and V Black cavity preparation. Definition. Cavity			
	preparation steps and instruments used for preparation			
	5. Dental amalgam. Amalgam application in tooth cavities. Definition,			
	properties, matrix systems for amalgam filling, cavity preparation steps			
	and amalgam filling phases			
	6. Positive diagnosis of the carious lesions. Performing the subjective,			
	objective, and complementary examinations to establish the positive			
	diagnosis of a simple carious lesion.			
	7. Establishing the differential diagnosis of the simple carious lesion.			
	8. Clasification of the carious lesions according to its location and depth.			
	Characteristics of the carious lesions according to its location: fissure and			
	pits lesions, smooth tooth surfaces lesions and cervical lesions			
	9. Treatment of the dentinal plague. Temporary filling materials. Materials			
	used for dentinal wound protection depending on the depth of the cavity			
	and depending on the aspect of the dentine located on the cavity floor			
	10. Treatment of the dentinal plague. Pulp capping techniques. Indirect			
	pulp capping: definition, indications, materials used, working technique			
	and follow-up.			
	11. Management of the accidental opening of the pulp chamber. Direct			
	pulp capping: definition, indications, materials used, working technique			
	and follow-up.			
	12. Principles of cavity preparation for composite resin filling. SISTA			
	classification. SISTA 1 cavities-tooth preparation technique and restauration methods			
	13. SISTA 2 cavities-preparation of tunnel, slot, and hemisphere cavities			
	for SISTA 2.1, 2.2, 2.3, 2.4. SISTA 3-preparation and restauration techniques.			
	14. Composite resin materials, adhesive systems, matrix systems used,			
	stratification technique on anterior and posterior teeth.			
	PRACTICAL ACTIVITIES			
Teaching	Power-Point and interactive presentation, interactive discussions, and			
methods	filmed demonstrations			
Practical	Exercises of instruments recognition and description			
activity	Preparation of different types of Black cavities on model and on the			
carried out	phantom			
by students	Filling the cavities with different materials studied in the lecture			
	Preparation of Sista cavities on the phantom and filling the cavities with			
	composite resin.			
Content	1. Presentation of the instruments and the devices needed for the treatment			
	of the carious lesion			
	2. Class I Black cavity preparation realized on the model			

	3. Preparation of reduce	ed class II, class III, and	l class IV on the model	
	4. Preparation of class			
	5. Application of the cement base and pulp capping on the cavities			
	prepared	1 1 1		
	6. Filling the cavities of	n molars with amalgam		
			unnel cavities on the model	
	•		and 2.2, 2.3 on frontals on	
	the model			
	9. Application of the co Sista 2.3 anterior caviti		sta 2.2 on posterior and	
		I, II, V cavities after B	lack on the phantom	
		OD cavity on the phanto		
	amalgam	, ,	Č	
	12. Preparation of a SIS	STA 2.4 cavity on the p	hantom and filling it with	
	composite resin		_	
	13. Recap lab			
		ity preparation on the n		
Bibliography			Fundamentals of operative	
	Dentistry Ed. Quintessence 2013			
	2.Ecaterina Ionescu (coordinator): Manual pentru rezidențiat –			
	stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021			
	3.Referentiel internat: denstisterie restauratrice, endodontie sous l'egide du College National des Enseignants en Odontologie conservatrice; R Devillard, O.Romieu, R Arbab-Chirani, P Colon, E. Mortier, D Seux			
	2021	R Arbab-Chirani, P	Colon, E. Mortier, D Seux	
	-	les larges restaurations	composites MOD dans les	
	4. Approche moderne des larges restaurations composites MOD dans les secteurs postérieurs Pascal Magne, Anne Longuet-Tuet; Réalités			
	Cliniques 2018. Vol. 29, n° 4 : pp. 228-234			
			e directe en toute	
	5. Les résines composites utilisées en méthode directe en toute simplicité, E. Mortier, R Balthazard; Biomatériaux Cliniques Vol. 4 - n° 2			
	octobre 2019, p60-69	,	4	
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the	70%	15%	15%	
final grade:				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	3 Oral Rehabilitation
Discipline	Prevention in Dentistry

Cours title		ORO-DENTAL PREVENTION							
Respo	nsible	for lectu	re	Lecturer Dr. Andrei Picoş					
Respo	nsible	for pract	tical	Lecture	Lecturer Dr. Andrei Picos				
activit	t y			Lecture	Lecturer Dr. Iulia Badea				
				Lecture	Lecturer Dr. Radu Chifor				
The fo	The formative category of		DS						
the di	the discipline								
Comp	Compulsory discipline		Compu	lsory					
	~	hours	s/week	Но	urs/semes	ster	m 1	~ ·:	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total C	Credits	Assessment
3	1	2	3	28	42	30	100	4	E

Pre-conditions	Basic knowledge of anatomy, physiology and physiopathology of	
(Preliminary	the oral cavity, dental propaedeutic, cariology	
conditions)	Dental ergonomy, asepsis and aseptic practices	
Requisites for	Amphitheatre with projector system and/or on-line Microsoft	
lectures and	Teams	
practical activities	Laboratories with specific requisites for the practical activities	

Professional	The conscience of utilizing the appointment to the property of utilizing the appointment of of utilizing the u
competences	The capacity of utilizing the specialty terminology in an adequate manner and in context
competences	
	Obtaining knowledge regarding the examination instruments and
	the instruments used for performing the dental cleaning (manual
	and ultrasonic scaling, non-invasive sealing)
	 Knowing various dental diagnostic methods: clinical methods, visual methods (caries indices), clinical methods (diagnodent) and imagistic methods (radiography)
	 Obtaining knowledge regarding dental plaque control using different methods
	 Knowing international dental indeces (DMF, GI, API, OHI, CPITN,ICDAS)
	 Perfecting the capacity to apply the theoretical knowledge of caries prophylaxis in a practical manner by working on models (for the sealing procedure) and on clinical cases (for the scaling and topical fluoridation procedure)
	Acquiring the necessary practical experience of utilizing the
	special instruments and armamentarium in order to be able to
	perform all the methods of caries prevention using different
	methods and materials.
Transversal	
	The capacity of employing the learned notions in a new context
competences	To apply the theoretical knowledge in the practical activity
	 Establishing interdisciplinary correlations between the studied subjects
General	Acquiring knowledge of dental pathology prophylaxis for children

objectives	and adults.	
Specific	 Acquiring knowledge of dental prevention for children and adults. 	
objectives	 The introduction of dental plaque control notions. 	
	 Acquiring knowledge of the auxiliary means of hygiene and personalizing their usage. 	
	The diagnosis of the incipient carious lesion	
	The in depth study of the systemic fluoridation	
	The in depth study of the topical fluoridation and the fluoride products used	
	 Acquiring notions of cross-infection control in the dental office 	
	 Exercise capacity of synthesis and bibliographical documentation 	

	LECTURES		
Teaching	Lecture, interactive, systematic presentation. Oral presentations,		
methods	Power-Point presentations.		
Content	1. Dental prevention. General aspects.		
	2. Patient examination chart.		
	3. The cross-infection control in the dental office.		
	4. Indices in dental prevention (classification, plaque indices, caries indices, gingival bleeding indices)		
	5. Pediatric prevention of dental caries. The mechanical control		
	over the bacterial plaque (Reducing the number of bacteria):		
	Dental brushing and auxiliary means of oral hygiene 2 hours		
	6. The chemical control over the bacterial plaque: Toothpaste and other dentifrices.		
	7. Increasing the resistance of the dental tissues through systemic and local fluoridation		
	8. The professional topical fluoridation – Uses of fluoride pharmaceuticals. Commercial products.		
	9. Acute and chronic fluoride intoxication. Administration of		
	fluoride pharmaceuticals		
	10. The concept of food hygiene and nutritional, caries-preventive food. Nutrients, which contain hidden sugar.		
	11. The pits and fissure sealing procedure. Indications, technique, commercial products.		
	12. Sanitary education divided on age groups. Prenatal and postnatal recommendations. Recommendations for infants and pre-school children. Recommendations for school-aged children once the first permanent teeth appear until the age of 18.		
	13. The professional brushing procedure. Indications, technique, precautions. The supra gingival scaling. Supra gingival scaling instruments (manual and mechanical).		
	14. The prophylaxis of the dento-maxillary anomalies. The		

	detection of vicious habits. The preventive attitude towards the			
	orthodontic patient and the patient			
	PRACTICAL ACTIVITIES			
Teaching	Interactive discussions. Demonstrations on film. Presentations on the			
methods	model.Demonstrations on the model. Demonstrations on a clinical case			
Practical	Completing the medical chart, performing extra-oral and intra-oral			
activity carried	examinations, completing the dental chart, calculating the international			
out by students	oral healthindices, manual and ultrasonic scaling techniques,			
	professional brushing technique, preventive sealing technique, fluoride			
	treatments provided in dental offices, preventive dental techniques on			
a	the model and clinically on a patient.			
Content	1. Clinical examination of the patient. Examination chart.			
	2. Preventing the transmission of the infection inside the dental office.			
	Asepsis, antisepsis and disinfection: terminology, sterilization methods,			
	disinfection methods, disinfectant agents and antiseptic agents for dental			
	use. Using the adequate protection equipment for the personnel of the			
	dental office.			
	3. Relieving the bacterial plaque and the dental tartar. Plaque relieving			
	substances. Indices (recording technique, estimation formula): OHI-S			
	oral hygiene index, Lange proximal plaque index (API), and tartar surface index.			
	4. Assessing the dental status – DMF and dmf, oral hygiene status.			
	5. Gingival inflammation indices, periodontal indices (recording			
	technique, estimation formula): SBI index (sulcular haemorrhage), PBI index (papillary bleeding), CPITN(one case). Assessing dental mobility			
	by means of the periotest.			
	6. Mechanical and chemical methods in preventing bacterial plaque.			
	Manual dental brushing techniques, mechanical brushing, auxiliary			
	means of oral hygiene. Partial evaluation of the knowledge.			
	7. Professional brushing: brushing technique, polishing paste, devices			
	(rubber cups, brushes, discs, dental silk).			
	8. Manual scaling: describing and using manual scaling instruments,			
	scaling technique divided on dental groups.			
	9. Ultrasonic scaling: indications, contraindications, and technique.			
	10. Topical fluoridation procedure. Professional administrations:			
	appearance (varnishes, gels, fluids), administration method, and			
	commercial products.			
	11. Detecting the carious lesion by means of the Diagnodent.			
	12. Remineralizing the incipient dental caries. Bitewing X-Rays for the			
	assessment of the approximal caries.			
	13. Preventive sealing procedure.			
	14. Practical exam – The presentation of the dental prophylaxis project			
	+ interview			
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	University Press, Fifthedition 2017			
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- de profilaxie stomatologică. Editura EUROBIT, Timisoara 2016.
- 3. Cuculescu Marian. Preventie primară în carie si parodontopatii. EDITURA DIDACTICĂ SI PEDAGOGICA.2010
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- Ece Eden.Evidence-Based CariesPrevention ISBN 978-3-319-40032-7 ISBN 978-3-319-40034-1 (eBook)DOI 10.1007/978-3-319-40034-1
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Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	40%	40%	20%

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Faculty		Dental Medicine							
Domain of study		Health							
Academic degree			Dental Medicine in English						
Level of course			I and II- License and masters						
Qualification			Doctor of Dental Medicine						
Department			1 Anatomy and Embriology						
Discip	line			Patholo	ogy				
Cours title			PATHOLOGY						
Responsible for lecture		Assoc. Prof. Dr. Dan Gheban							
			Assis. Prof. Dr. Carmen Georgiu						
Responsible for practical			Assoc. Prof. Dr. Mihaela Mera						
activity			Assistant Dr. Alexandra Buruiană-Simić						
-			Assistant Dr. Bogdan Gheban						
			Assistant Dr. Diana Gonciar						
			Resident of pathology, Dr. Silvia Spânu, MD, PhD						
		Resident of pathology Dr. Diana Negruțiu, MD, PhD							
		student							
The formative category of		DF							
the dis	scipline	•							
Compulsory discipline		Compulsory							
Year Sem	hours/week		hours/semester				G 11.	Type of	
	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
3	1	2	3	28	42	55	125	5	Е

Pre-conditions	-			
(Preliminary				
conditions)				
Requisites for	Amphitheater equipped with computer/laptop and video projector,			
lectures and	whiteboard.			
practical activities	ities Room for practical labs of macroscopy equipped with: computer /			
	laptop and video projector, containers with organs with lesions			
	kept in formalin, stainless steel mobile table for transporting			
	teaching materials, shelves for storing containers, whiteboard.			
	Autopsy room.			
	Practical microscopy work room equipped with: tables, optical			
	microscopes, computer / laptop, video projector, monitors, image			
	transmission system, whiteboard.			

Professional	To recognize, based on the notions of pathological anatomy, the main			
competences	categories of pathological processes			
	To recognize, based on the notions of pathological anatomy, the main lesions encountered in oral pathology			
	To formulate an anatomopathological diagnosis, based on the theoretical and practical notions acquired			

	To interpret correctly a pathological report
	To analyze and elaborate the therapeutic management of patients with
	oral diseases, depending on the pathological diagnosis
Transversal	• Integration of notions of pathological anatomy in the context of skills
competences	acquired in other disciplines
	Applying the notions of pathological anatomy in the specialized
	practical activity
	Ability to communicate pathological diagnosis to patients
	Concern for professional development by training critical thinking skills
	• Involvement in research activities and in the elaboration of scientific articles
	Ability to use digital media for medical information
General	Good knowledge, deepening and correct use of the notions of general
objectives	and oral pathology.
Specific objectives	 Acquisition of general knowledge on macroscopic and microscopic aspects of different categories of pathological processes (circulation disorders, metabolic disorders, inflammation, tumors, developmental disorders), knowledge necessary for understanding oral pathological processes Acquisition of knowledge of oral pathological anatomy, of local or general origin Carrying out correlations between pathological anatomy and etiology, pathogenesis, clinical manifestations, evolution and complications of lesions Exemplification of pathological processes through lesions more frequently encountered in general and dento-maxillo-oral medical practice Use this knowledge later, in order to understand the notions presented in other areas of the dental curriculum (eg, general medicine, general surgery, general anesthesia, oral medicine, oral surgery, periodontics, endodontics).

	LECTURES				
Teaching methods	Lecture, systematic exposure, conversation, clinico-pathological correlations. Interactive exposure using multimedia means, PowerPoint presentations.				
Content	1. FLUID AND HEMODYNAMIC DISORDERS. Hyperemia.				
	Hemorrhage. Ischemia. Thrombosis. Embolism. Infarction. Edema.				
	2. METABOLIC DISORDERS. Adaptive processes (Hypertrophy.				
	Hyperplasia. Atrophy. Metaplasia). Cell injury and cell death. Cellular				
	degeneration. Steatosis. Necrosis. Apoptosis.				
3. METABOLIC DISORDERS. Intracellular and extracellular					
	accumulations. Pigments: Melanin. Hemosiderin. Bilirubin. Calcification.				

Lithiasis.

4. INFLAMMATION AND HEALING

General features. Acute inflammationChronic inflammation: Bacterial inflammations: Tuberculosis, Syphilis, Rhinoscleroma, Actinomycosis. Fungal inflammations: Candidiasis

HEALING

5. TUMORS

Carcinogenesis. Tumor biology. General features of benign and malignant tumors. Tumor invasion and metastasis Epithelial tumors: benign and malignant. Benign: Papilloma, Adenoma. Malignant: Squamous carcinoma. Adenocarcinoma.

6. TUMORS

Soft tissue tumors: benign and malignant (Fibrous, muscular, adipose, fibrohistiocytic, vascular tumors). Melanocytic tumors

- **7. DENTAL PATHOLOGY.** Disorders of eruption end shedding of teeth. Hypodontia and anodontia. Hyperodontia. Microdontia and macrodontia. Disturbances of the crown and root. Mixed coronoradicular disturbances. Disturbances in the structure of teeth.
- **8. DENTAL PATHOLOGY.** Amelogenesis imperfecta. Disturbances of the teeth enamel. Internal and external discoloration of teeth. Dentinogenesis imperfecta. Dentinal dysplasia and regional odontodysplasia. Inclusions. Ankylosis, transposition and ectopia. Attrition, abrasion and erosion. Dental caries and plaque. External and internal resorbtion. Pulpitis: etiology and classifications. Reversible pulpitis. Acute irreversible pulpitis. Chronic pulpitis. Periapical granuloma.
- **9. DENTAL PATHOLOGY.** Periodontal apical cyst. Periapical abscess. Gingivitis. Gingival hyperplasia (drug-induced) and gingival fibromatosis. Adult chronic peridontitis. Early peridontitis. Periodontitis from HIV infection and Papillon-Lefevre syndrome. Lateral periodontal abscess and acute pericoronitis.
- **10. ORAL CAVITY PATHOLOGY.** Malformations of the mouth and lips. Clefts of the lips, palate, face. Malformations of the tongue. Malformations of the oral mucosa. Benign migratory glossitis.

11. ORAL CAVITY PATHOLOGY.

Catarrhal stomatitis. Serous stomatitis. Aphtous stomatitis. Purulent stomatitis and ulcero-necrotic stomatitis. Tuberculous stomatitis. Oral candidiasis. Celullitis and Ludwig's angina. Hematogenous spread of oro-facial infections. HIV infection. Pyogenic granuloma and peripheral granuloma with giant cells (epulis). Ossifying fibrous epulis and traumatic epulis. Inflammatory papillary hyperplasia and focal fibrous hyperplasia. Oro-facial granulomatosis.

12. ORAL CAVITY PATHOLOGY.

Leukoplakia and erythroplasia. Oral cavity cancer: generalities (incidence, age, sex, location, etiologic factors). Oral cavity cancer: macroscopy, microscopy, grading, staging. Oral cavity cancer: invasion,

	material manageria Clinica materialism of and accom-							
	metastasis, prognostic. Clinico-pathologic forms of oral cancer							
	13. SALIVARY GLANDS PATHOLOGY. Salivary glands aomalies.							
	Xerostomia. Extravasation mucoceles Retention mucoceles (salivary							
	duct cyst) Inflammatory cystic lesions Lymphoepithelial cyst.							
	Sialolithiasis. Sialosis (sialadenosis). Necrotising sialometaplasia Acute							
	purulent sialadenitis Chronic sclerosing sialadenitis Epidemic parotiditis							
	Glandular cheilitis. Myoepithelial sialadenitis Salivary glands tumors:							
	generalities Pleomorphic adenoma. Warthin tumor. Mucoepidermoid							
	carcinoma. Acinic cell adenocarcinoma Adenoid cystic carcinoma.							
	14. OSTEOARTICULAR PATHOLOGY. Agnatia, micrognatia and							
	macrognatia. Torus palatinus and mandibular torus. Exostosis, maxillar							
	clefts and facial hemihypertrophy. Maxillary atrophy (senile, inactivity,							
	compression). Progressive hemifacial atrophy. Osteoradionecrosis.							
	Ricketts, infantile cortical hyperostosis and cherubism. Maxillary bone							
	inflammation: generalities (etiology, infection spread, risk factors,							
	location). Acute and chronic purulent osteomyelitis. Sclerosing chronic							
	osteomyelitis. Chronic osteomyelitis with proliferative periostitis.							
	Dentigerous cyst. Odontogenic keratocyst. Nasopalatine duct cyst.							
	Solitary bone cyst and aneurysmal bone cyst. Ameloblastoma.							
	Odontoma. Condrosarcoma and osteosarcoma. Congenital anomalies of							
	mandibular condyle: aplasia, hypoplasia, hyperplasia. Traumatic							
	dislocation of temporo-mandibular joint (TMJ). Fractures of the							
	mandibular condyle and lesions of the meniscus. Trismus and ankylosis.							
	Infective arthritis of TMJ. Osteoarthritis of TMJ. Rheumatoid arthritis of							
	TMJ.							
	PRACTICAL ACTIVITIES							
Teaching	Examination of microscopic slides. PowerPoint presentations.							
methods	Examination of formalin-fixed organs with different macroscopic							
	lesions.							
	Participation at autopsies.							
Practical	Microscopic examination of histopathological slides. Making drawings							
activity carried	with the main pathological aspects of the lesions. Describing the							
out by students	macroscopy of lesions, making differential diagnosis.							
Content	1. FLUID AND HEMODYNAMIC DISORDERS							
	- Microscopy: congestion, chronic liver stasis, recent thrombus and the							
	conjunctive organization of the thrombus, cerebral purpura, pulmonary							
	infarction, acute pulmonary edema							
	- Macroscopy: congestion (cerebral, cutaneous), stasis/portal							
	hypertension (liver cirrhosis-collateral circulation, splenomegaly,							
	ascites), chronic liver stasis, cutaneous purpura, echimoses, hematoma							
	(subdural, cerebral, hepatic), hemothorax, hemopericardium,							
	thrombosis, thrombembolism, white infarction (renal, cardiac), red							
	infarction (pulmonary, intestinal), edema, hydrothorax, ascites, acute							
	pulmonary edema, Quincke's edema, limphedema.							
	2. METABOLIC DISORDERS: ADAPTIVE PROCESSES AND							
	CELLULAR LESIONS							
•								

- **Microscopy:** atrophy, hyperplasia, squamous metaplasia, fatty dystrophy of the liver, coagulation necrosis, steatonecrosis
- Macroscopy: atrophy (cashexia, hydrocephalus, hidronephrosis), hypertrophy (myocardium, urinary bladder), hyperplasia (endometrial, prostate), fatty dystrophy of the liver, gangrene, coagulation necrosis, liquefactive necrosis, steato necrosis, tuberculous necrosis.

3. METABOLIC DISORDERS: CELLULAR ACCUMULATIONS

- **Microscopy:** hyper/para/diskeratosis, amyloidosis, cholesterolosis, lipofuscin, cardiosclerosis, melanin deposits, hemocromatosis.
- **Macroscopy:** hepatic cirrhosis, keloid, hairy leucoplakia, renal, cardiac and splenic amyloidosis, lithiasis, hypermelanoses, jaundice.

4. ACUTE INFLAMMATION AND HEALING

- **Microscopy:** vesicles, pustules, fibrinous pericarditis, lobar pneumonia, myocardial abscess, granulation tissue, purulent meningitis.
- Macroscopy: hydrothorax, herpes, lobar pneumonia, bronchopneumonia, purulent peritonitis, pseudomembranous colitis, recent abscesses, hemorrhagic cystitis.

5. CHRONIC INFLAMMATION

- Microscopy: Bacterial inflammations: Tuberculosis, Syphilis, Rhinoscleroma, Actinomycosis. Fungal inflammations: Candidiasis. Foreign body granuloma.
- **Macroscopy:** primary tuberculosis, military tuberculosis, syphilis, chancre, Hutchinson's teeth, rhinoscleroma, actinomycosis, candidiasis.

6. TUMORS

- **Microscopy** and **macroscopy:** squamous cell carcinoma, basal cell carcinoma, adenoma, adenocarcinoma, hemangioma, leiomyoma, fibrosarcoma, naevi, chondrosarcoma, melanoma, adenomatous polyps.

7. DENTAL PATHOLOGY

- Microscopy and macroscopy: Disorders of eruption end shedding of teeth. Hypodontia and anodontia. Hyperodontia.

Microdontia and macrodontia. Disturbances of the crown and root. Mixed corono-radicular disturbances. Disturbances in the structure of teeth.

8. DENTAL PATHOLOGY

- Microscopy and macroscopy: Amelogenesis imperfecta.
Disturbances of the teeth enamel. Dentinogenesis imperfecta.
Dentinal dysplasia and regional odontodysplasia. Inclusions.
Ankylosis, transposition and ectopia. Attrition, abrasion and erosion.
Dental caries and plaque. External and internal resorbtion. Reversible pulpitis. Acute irreversible pulpitis.

Chronic pulpitis. Periapical granuloma.

9. DENTAL PATHOLOGY

- Microscopy and macroscopy: Periodontal apical cyst.

Periapical abscess. Gingivitis. Gingival hyperplasia (drug-induced) and gingival fibromatosis. Adult chronic peridontitis.

Early peridontitis. Periodontitis from HIV infection and Papillon-

Lefevre syndrome. Lateral periodontal abscess and acute pericoronitis.

10. ORAL CAVITY PATHOLOGY

- Macroscopy: Malformations of the mouth and lips. Clefts of the lips, palate, face. Malformations of the tongue. Malformations of the oral mucosa. Benign migratory glossitis.

- Macroscopy and microscopy: Catarrhal stomatitis. Serous stomatitis. Aphtous stomatitis. Purulent stomatitis and ulcero-necrotic stomatitis. Tuberculous stomatitis. Oral candidiasis.

Celullitis and Ludwig's angina.

11. ORAL CAVITY PATHOLOGY

- Microscopy and macroscopy: Pyogenic granuloma and peripheral granuloma with giant cells (epulis). Ossifying fibrous epulis and traumatic epulis. Inflammatory papillary hyperplasia and focal fibrous hyperplasia. Oro-facial granulomatosis Leukoplakia and erythroplasia. Forms of oral cancer

12. SALIVARY GLAND PATHOLOGY

- Microscopy and macroscopy: Salivary glands anomalies. Xerostomia.) Inflammatory cystic lesions. Lymphoepithelial cyst. Sialolithiasis. Sialosis (sialadenosis).

Necrotising sialometaplasia Acute purulent sialadenitis Chronic sclerosing sialadenitis Epidemic parotiditis Glandular cheilitis.Myoepithelial sialadenitis.Pleomorphic adenoma. Warthin tumor. Mucoepidermoid carcinoma. Acinic cell adenocarcinoma Adenoid cystic carcinoma.

13. OSTEOARTICULAR PATHOLOGY

- Microscopy and macroscopy: Agnatia, micrognatia and macrognatia. Torus palatinus and mandibular torus. Exostosis, maxillar clefts and facial hemihypertrophy. Maxillary atrophy (senile, inactivity, compression). Progressive hemifacial atrophy. Osteoradionecrosis. Ricketts, infantile cortical hyperostosis and cherubism. Acute and chronic purulent osteomyelitis. Sclerosing chronic osteomyelitis. Chronic osteomyelitis with proliferative periostitis. Dentigerous cyst. Odontogenic keratocyst. Nasopalatine duct cyst. Solitary bone cyst and aneurysmal bone cyst. Ameloblastoma. Odontoma. Condrosarcoma and osteosarcoma. Congenital anomalies of mandibular condyle: aplasia, hypoplasia, hyperplasia. Traumatic dislocation of temporo-mandibular joint (TMJ). Fractures of the mandibular condyle and lesions of the meniscus. Trismus and ankylosis. Infective arthritis of TMJ. Osteoarthritis of TMJ. Rheumatoid arthritis of TMJ.

14. REVISION

Revision of the notions presented in the practical sessions during the semester.

Bibliography

- 1. The handout of the discipline actualised yearly
- 2. The presentations with images (powerpoint, pdf) elaborated by the discipline of Pathology
- 3. Edward W Odell, Cawson's Essentials of Oral Pathology and

	Oral Medicine, 2017								
	4. Robbins Par	4. Robbins Pathologic Basis of Disease, 10th ed Cotran,							
	Kumar, and	Kumar, and Collins, 2019							
	5. <u>http://www.p</u>	oathologyoutlines.com/							
	6. http://library	6. http://library.med.utah.edu/WebPath/webpath.html							
	7. <u>http://alf3.ur</u>	7. http://alf3.urz.unibas.ch/pathopic/intro.htm							
Evaluation:	Written exam	Practical exam	Activity during the						
	semester:								
Percent of the	80 % -								
final grade:									

Institu	ition fo	r gradua	ate and	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies				Cluj-Napoca					
Facult	ty			Dental Medicine					
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Dental	Materials	, Ergono	mics		
Cours	Cours title			DENT	AL MAT	ERIAL	S		
Respo	Responsible for lecture		Lecturer Dr. Adriana Objelean						
Respo	nsible	for pract	ical	Lecturer Dr. Adriana Objelean					
activit	y			Lecturer Dr. Andrada Voina-Ţonea					
				Assist. 57 vacant					
				Assist. 58 vacant					
				Assist. 59 vacant					
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Comp	Compulsory discipline		Compulsory						
**			/week	hours/semester		G 11.	Type of		
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
3	1	1	3	14	42	69	125	5	Е

Pre-conditions	Knowledge of the properties that characterize dental materials				
(Preliminary conditions)					
Requisites for lectures	Video projection amphitheater				
and practical activities	Laboratories with specific practical activity equipment				

Professional	Ability to adequately use the specialty terminology
competences	Acquiring knowledge about the composition, properties and
	indications for use of dental restorative materials, focusing on practical
	applications

	 Inproving the capacity to reproduce the theoretical knowledge, trouhg preparation and use of the dental materials Acquisition of the necessary practice for the preparation and use of different types of dental restorative materials 						
	Acquisition of the necessary practice in order to choose the optimum material for a given clinical situation						
Transversal competences	 Use of assimilated information in new contexts Application of theoretical concepts in the practical activity Interdisciplinary correlations within the study domains 						
General objectives	Knowledge of fundamental concepts of composition, properties and indications for use of restorative dental materials, focusing on practical applications						
Specific objectives	 Acquiring knowledge about the composition, properties and indications for use of dental materials, with an emphasis on practical applications Detailed study of the preparation and manipulation of dental materials, used directly by the dentist in the dental office Acquiring basic knowledge in the formulation and use of dental science. Theoretical necessary and a logical algorithm of choice of the most suitable material for a particular clinical situation Capacity execution and bibliographic documentation summary 						

	LECTURES
Teaching	Lecture, systematic, interactive lectures.
methods	Oral presentation, PowerPoint presentation
Content	1. Adhesion. Principles, mechanisms - resume
	2. Adhesion to the hard dental tissues. Principles
	3. Self-etch adhesive systems - mechanisms of action
	4. Resin-based composites- Classification, composition
	5. Resin-based composites - Classification, composition
	6. Resin-based composites -Physical and mechanical properties
	7. Resin-based composites Chemical and biological properties.
	Adhesion
	8. Self-curing versus light curing
	9. Glass ionomer cements and resin -modified glass ionomer cements
	10. Ceromers, ormocers, compomers.
	11. Luting cements used in dental prosthetics
	12. Dental amalgam
	13. Liners. Bases.
	14. Sealing materials
	PRACTICAL ACTIVITIES
Teaching	Interactive discussions
methods	
Practical	Checking procedures for testing the knowledge and performing different

activity carried	procedures and technic	gues for the application	of restorative dental				
out by students	procedures and techniques for the application of restorative dental materials in prepared cavities						
Content	1. Principles of the ad						
Content	2. Adhesion to the har						
	3. Etch and rinse adhe						
	4. Self-etch adhesive s	•					
		*					
		5. Self-curing resin-based composites6. Light-curing resin-based composites					
			11				
	/. Glass ionomer ceme	ents and resin -modified	l glass ionomer cements				
	8. Review of the esthe	tic filling materials					
		sthetic prosthetic restora	ations				
		etic prosthetic restoratio					
	11. Bases, liners	the production restoration					
	12. Materials used as s	sealers					
	13. Dental amalgam						
	14. Practical examinat	rion					
Bibliography			Craig's restorative dental				
Dionography	1. Ronald L. Sakaguchi, John M. Powers. Craig's restorative dental materials - 14th ed.Elsevier Mosby 2018						
		_	hine F. Esquivel-Upshaw.				
			13th Edition, ed.Elsevier				
	Mosby 2021	, , , , , , , , , , , , , , , , , , , ,					
		r. Sturdevant's Art a	nd Science of Operative				
	Dentistry, 7th Ed		op.				
			nd. Contemporary Fixed				
		th Edition, Ed Elsevier,					
			ntal Materials, 4th Edition.				
	ed Elsevier, 2013		,				
	6. W. Stephen Eakl	e, Kimberly G. Bastin.	Dental Materials, Clinical				
			d Dental Hygienists, 4th				
	Edition. Ed. Else		20				
	7. Nicola C și cola	ab. – Materiale dentare	e – Considerații clinice și				
		Casa Cărții de Știință, C					
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	33%	33%	33%				
final grade:	55,5						
Brauce	ı	l					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Department				1 MaxilloFacial Surgery and Radiology					
Discipline				Oral and Cranio-MaxilloFacial					
Cours title				ANES	THESIA	AND SE	EDATIO	N IN DEN	ITAL
				MEDI	CINE				
Respo	nsible i	for lectu	re	Associa	ate Prof.	Dr. Rota	ar Horați	iu	
Respo	Responsible for practical				Teaching Assist. Dr. Ostas Daniel				
activit	y			Teaching Assist. Dr. Termure Dragos					
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Comp	ulsory	disciplin	e	Compu	lsory				
* 7	hours/week			hours/semester			Type of		
Year	Year Sem C LP/S		С	LP/S	SI	Total	Credits	Assessment	
3	2 2 3		28	42	55	125	5	Е	

Pre-conditions	The anatomy of the head and neck. Physiology. Pathophysiology.		
(Preliminary	General semiology and the dento-maxillary apparatus.		
conditions)	Pharmacology.		
	The ability to analyze anatomo-clinical parameters in the clinical		
	case study.		
	Critical analysis and interpretation of laboratory analyzes.		
	Correct writing of therapeutic prescriptions		
Requisites for	Amphitheater with projection system (projector)		
lectures and	Dental offices with dental chairs, salons, intervention rooms		
practical activities			

D 6 1 1		
Professional	The acquisition of theoretical and practical notions of specific	
competences	examination of the specialty;	
	The theoretical and practical acquisition of local anesthesia and	
	locoregional anesthesia techniques used in stomatological practice;	
	Critically analyze and correctly perform the therapeutic management	
	of patients with oral cavity pathologies	
	Effectively identify anesthesia techniques related to the patient's	
	conditions.	
	Be able to correctly interpret the results of certain laboratory	
	analyzes;	
	Monitor the effectiveness and adverse reactions of the anesthetic	
	techniques applied.	
	Monitor the treatment of accidents and complications of anesthesia	
	techniques.	
	To be able to effectively use the sources of information on local	
	anesthesia.	
	The resolution of clinical practice problems	
Transversal	The use of assimilated concepts in new contexts	
competences	The application of theoretical notions in the practical activity	

	Establishing interdisciplinary correlations within the framework of the areas studied			
	 Have the ability to communicate effectively with the patient 			
	 Demonstrate concerns for professional development through training in analytical and synthetic thinking skills 			
	 Demonstrate involvement in research activities, such as the development of certain scientific articles. 			
General objectives	• The course offers students of the 3rd year of Dental Medicine of the Faculty of Dental Medicine theoretical notions of local anesthesia			
objectives	and loco-regional anesthesia used in stomatological practice.			
	• The practical work aims to acquire practical notions of specific examination of the specialty; the practical acquisition of locoregional anesthesia techniques used in stomatological practice.			
Specific objectives	 The acquisition of practical notions of specific examination of the specialty; 			
	 The theoretical and practical acquisition of local and loco-regional anesthesia techniques; the acquisition of practical notions of specific examination of the specialty; 			
	Exercising the capacity for synthesis and bibliographic documentation			

	LECTURES			
Teaching	Lecture, systematic presentation, interactive lecture, patient			
methods	presentation of related cases			
Content	1. Clinical examination of the patient in oro-maxillofacial surgery:			
	anamnesis, objective local and regional examination.			
	2. The particularities of clinical and para-clinical investigations in oral			
	and maxillofacial surgery. The specific diagnostic methods and the			
	integration of the oro-maxillofacial examination in the loco-regional and			
	general examination of the patient.			
	3. Assessment of the anesthetic risk. Influence of general diseases on the			
	technique of local anesthesia, the type of anesthetic, the time of			
	anesthesia.			
	4. Control and prevention of cross infections in dentistry. Asepsis and			
	Antisepsis in Stomatology and Oromaxillofacial Surgery. The			
	peculiarities of the operating room in stomatology. The peculiarities of			
	the dental office. Sterilization in stomatology. Heat sterilization, gas			
	sterilization, radiation sterilization. Antiseptics and disinfectants:			
	alcohols, halogens, oxidizing antiseptics, acids, phenolic derivatives,			
	biguanidas derivatives, aldehydes, salts of heavy metals, detergents,			
	dyes.			
	5. Pain and its neurophysiology. Anatomy of peripheral nerves.			
	Generation of nerve impulses and transmission. Perception of pain			
	Mode and site of action of local anesthetics Kinetics of onset of local			
	anesthesia and duration of action Clinical implications.			

	6. Particularities of anesthesia in dentistry. Types of local anesthesia.
	Topical anesthesia - armamentarium and techniques: Anesthesia using
	cotton applicators and topical anesthetic substances (gels);
	Transmucosal diffusion anesthesia; Spray anesthesia.
	7. Local anesthesia by infiltration - armamentarium and techniques:
	Intramucosal or intradermal anesthesia; Submucosal or subcutaneous
	anesthesia; Barrage-type anesthesia; Supraperiosteal anesthesia;
	Intraligamentary anesthesia; Intraosseous anesthesia.
	8. Local and regional anesthesia for the upper jaw. Maxillary nerve
	blocks: Posterior superior alveolar nerve block ("tuberosity block")
	(intraoral technique); Block of the anterior superior alveolar nerve
	("infraorbital nerve block") (intraoral and extraoral technique); Large
	palatal nerve block; Nasopalatine nerve block; Local infiltration of the
	palate
	9. Local and regional anesthesia in the mandible. Mandibular nerve
	blocks: Lower alveolar nerve block (lingula anesthesia, Vasirani-
	Akinosi technique) (intraoral technique); Lingual nerve block; Mental
	and incisal nerve block (intraoral and extraoral technique);
	10. Local and regional anesthesia in the mandible: Oral nerve block;
	Masseter nerve block. Simultaneous anesthesias (Gow-Gates; Veisbrem;
	Ginestet). Technical modifications / variations
	11. Accidents and complications of local and regional anesthesia. Local
	accidents of local and regional anesthesia. Local complications of local
	and regional anesthesia. General (systemic) accidents of local and
	regional anesthesia.
	12. Special situations. Use of local anesthetics in pediatric dentistry.
	Anesthesia techniques used in different clinical cases. Ineffective pain
	control.
	13. Sedation in dentistry. Definitions. Indications and contraindications
	for sedation. Classes of drugs used in sedation. Levels of sedation.
	Sedation techniques - classification. Incidents and complications of
	sedation.
	14. Management of accidental exposure to biological material
	PRACTICAL ACTIVITIES
Teaching	Power-Point presentations, interactive teaching.
methods	
Practical	Practical work with the exposure of the maneuvers and techniques of
activity carried	local and loco-regional anesthesia on the mannequin and on patients.
out by students	
Content	1. The topographical division of the face. The presentation of the
	superficial and deep regions of the face. The topographical division of
	the neck; the delineation of the regions, the application of this
	knowledge in the practice of oro-maxillofacial surgery. The presentation
	of the topographic anatomy applied to the skull in diagrams.
	2. The anesthetic and surgical access routes to the face and neck areas.
	Painful sensitivity in the territory of the face and neck. The trigeminal

nerve: possibilities of anesthetic approach.

- 3. Asepsis and antisepsis in dentistry. Sterilization, preparation of instruments for sterilization. The operating room, preparing the patient and preparing sterile materials for the operation.
- 4. The acquisition of local anesthesia techniques in dentistry by ghosts.
- 5. The acquisition of locoregional anesthesia techniques in the upper jaw in dentistry by performing them on phantoms.
- 6. The acquisition of locoregional lower jaw anesthesia techniques in dentistry by performing them on phantoms.
- 7. The acquisition of simultaneous lower jaw anesthesia techniques in dentistry by performing them on phantoms.
- 8. The acquisition of local anesthesia techniques in dentistry by performing them on patients.
- 9. Acquiring the techniques of locoregional anesthesia in the upper jaw (postero-superior alveolar anesthesia and infraorbital nerve anesthesia) in dentistry by performing them on patients.
- 10. The acquisition of techniques of locoregional anesthesia in the upper jaw (anesthesia of the large palatine nerve and anesthesia of the nasopalatine nerve) in dentistry by performing them on patients.
- 11. Acquiring the techniques of locoregional lower jaw anesthesia (oral inferior alveolar nerve anesthesia) in dentistry by performing them on patients.
- 12. The acquisition of locoregional lower jaw anesthesia techniques (mental and incisal nerve anesthesia, lingual nerve anesthesia, oral nerve anesthesia) in dentistry by performing them on patients.
- 13. The acquisition of simultaneous lower jaw anesthesia techniques in dentistry by performing them on patients.
- 14. Oromaxillofacial clinical examination. The clinical observation sheet: demonstrations on the observation sheet in patients with different stomatological and maxillofacial pathologies.

Bibliography

- 1. Malamed, Stanley F. *Handbook of local anesthesia*. Elsevier Health Sciences, 2020.
- 2. Barthélémy, Isabelle, et al. *Chirurgie maxillo-faciale et stomatologie: Réussir les ECNi*. Elsevier Health Sciences, 2017.
- Guide de prise en charge des accidents d'exposition au sang (AES) et des accidents d'exposition au risque viral (AEV). COREVIH-Normandie. 2019
- 4. R. Rahn. *Zahnärztliche Lokalanästhesie*. Cevey Concept Communication in Wort und bild; Offenbach am Main, 2003
- 5. Ileana Mitre, G. Băciuț. Urgențe medico-chirurgicale în medicina dentară. Editura UMF Iuliu Hatieganu 2014.
- 6. Practice Guidelines for Intravenous Conscious Sedation in Dentistry. Anesth Prog 65:e1–e18 2018
- Ashley PF, Chaudhary M, Lourenço-Matharu L. Sedation of children undergoing dental treatment. Cochrane Database of Systematic Reviews 2018, Issue 12. Art. No.: CD003877. DOI:

	10.1002/14651858.CD003877.pub5 8. Green et al. Fasting and aspiration prevention for procedural sedation Anaesthesia 2020, 75, 374–385		
Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	50%	40%	10%

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies		Cluj-Napoca							
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Odonto	ology, End	dodontic	s and Ora	l Patholog	y
Cours title		ENDODONTICS							
Responsible for lecture		Assoc. Prof. Ada Delean							
Responsible for practical		Assist. Dr. Corina Ionescu							
activity			Assist. Dr. Lucia Dumitrașcu						
		Assist. Dr. Mihai Merfea							
The fo	The formative category of		DS						
the discipline									
Compulsory discipline		Compulsory							
		hours	/week	ho	urs/semes	ter		G 114	Type of
Year	Year Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	2	4	28	56	41	125	5	E

Pre-conditions Notions of anatomy and histology of teeth and pulp, of physiology and physiopathology of dental pulp, notions of anatomy and histology of dental pulp, notions of anatomy and histology of dental pulp, notions of anatomy and histology of dental pulp, notice the property of the propert	
	of pathological anatomy
Requisites for lectures and	Amphitheater with projection system
practical activities	Laboratories with specific facilities for the practical courses

Professional	The ability to use the terminology as appropriate and in the context
competences	Understanding the notions of morphology and physiology of dental pulp
	Understanding the notion of etiopathogenesis, pathophysiology and dental pulp morphopathology
	• The ability to synthesize the notions of subjective and objective examination of the patient to establish a correct diagnosis in the case
	of pulp inflammation

T				
	Acquiring the notions of isolation of the operator field in endodontics			
	Understanding the concepts of manual, rotary and antiseptic root canal treatment			
	Understanding the notions of root canal filling			
	• Improving the rendering capacity, by modeling, of the theoretical			
	and practical knowledge of pulp inflammation and its treatment			
	Acquiring the necessary practical experience for the use of			
	specialized instruments to achieve the correct endodontic treatment.			
Transversal	Use of assimilated notions in new contexts			
competences	Applying theoretical notions in practical work			
	Establishing interdisciplinary correlations within studied domains			
General	• Knowing some notions of morpho physiology and inflammation of			
objectives	the dental pulp and the means of treatment necessary for these diseases			
Specific objectives	Acquiring the notions of morpho physiology and inflammation of the			
objectives	dental pulp. The ability to establish a correct diagnosis of inflammatory diseases.			
	• The ability to establish a correct diagnosis of inflammatory diseases of the dental pulp by knowing the subjective and objective signs of			
	these diseases			
	Detailed study of manual and rotary root canal treatment.			
	• Detailed study of root canal irrigation principles and application of			
	antiseptic medication			
	Detailed study of the root canal filling			
	• Acquiring the knowledge of the instruments used in endodontics,			
	their characteristics and how to use them.			
	Deactivation of instrumentation capacity and root canal filling.			
	Practical exercise on extracted teeth			
	Exercise of synthesis and bibliographic documentation			

	LECTURES			
Teaching	Lecture, systematic, interactive exposure			
methods	Oral displays, Power-Point presentations			
Content	1. Endodontic anatomy: dental pulp structure, root canal configuration,			
	notions of curvature, physiological and pathological changes of the			
	endodontic space.			
	2. Pulp inflammation: etiopathogenesis, pathophysiology of pulp			
	inflammation, classification of pulp inflammation, reversible pulpitis			
	3. Pulp Inflammation: Acute and Chronic Pulpitisis: Subjective signs,			
	objective signs, treatment plan			
	4. Isolation of the operation field in endodontics: rubber dam system,			
	components, application techniques, advantages			
	5. Possibilities of preserving the dental pulp vitality: vital pulpotomy,			
	indications, technique, materials			
	6. Endodontic instruments: description, mode of use			

	7. Preparation of the access cavity: instruments used, objectives, pre-			
	endodontic reconstruction, access cavity preparation on frontal teeth			
	8. Preparation of the access cavity: access cavity preparation on			
	premolars and molars			
	9. Manual root canal preparation: catheterization of the root canals,			
	determination of the working length of the root canal: , working length			
	determination devices, principles of operation			
	10. Manual preparation of the root canal: manual instruments, principles of the step-back preparation technique.			
	11. Rotary root canal preparation: rotary instruments, continuous			
	rotation techniques			
	12. Antiseptic treatment of the root canal: root canal irrigation:			
	principles, irrigation solutions			
	13. Root canal obturation: materials used, properties, preparation			
	14. Root canal filling: cold lateral gutta percha condensation technique			
	PRACTICAL ACTIVITIES			
Teaching	Power-point interactive teaching presentations.			
methods				
Practical	Exercises of applying the rubber dam system on artificial arches			
activity carried	Exercises to recognize the instruments and how to use them			
out by students	Access cavity preparation			
	Exercises of catheterization of the root canal and real working length			
	determination, root canal preparation, and root canal filling			
Content	1. Rubber dam system: presentation of the component elements and			
	application techniques on the dental arches			
	2. Instruments used for the endodontic treatment			
	Making radiographs of teeth to be used for endodontic treatment			
	Analyzing X-rays			
	3. Creating the access cavity to the monoradicular teeth and premolars			
	4. Access cavity preparation on inferior and superior molars			
	5. Catheterization of the root canals in the monoradicular teeth and			
	determination of the real working length by radiological examination			
	and the use of the electronic apex locator			
	6. Mechanical and antiseptic root canal treatment on frontal teeth			
	7. Mechanical and antiseptic root canal treatment on premolars			
	8. Endodontic treatment of frontal teeth and premolars- recap			
	9. Mechanical and antiseptic root canal treatment on maxillary and			
	mandibular molars			
	10. Rotatory root canal preparation on monoradicular teeth			
	11. Rotatory root canal preparation on pluriradicular teeth			
	12. Performing the endodontic filling by cold lateral condensation at the			
	frontal teeth and premolars			
	13. Performing the endodontic filling by cold lateral condensation at the			
	molars			

	14. Endodontic treatm	ent -recap	
Bibliography	1. Louis H. Berman & Kenneth M. Hargreaves- Cohen's Pathways of		
	the Pulp, 12th Ed	lition, 2020	
	2. Sanda Cîmpean	-Ghid practic de Odo	ntologie si Endodonție,
	Editura Medicala Universitara "Iuliu Hatieganu" Cluj-Napoca 2012		
	3. Arnaldo Castellucci – Endodontics – 2018		
Evaluation:	Written exam Practical exam Activity during the		
			semester:
Percent of the	60% 30% 10%		
final grade:			

Institution for graduate and	Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies	Cluj-Napoca						
Faculty	Dental	Dental Medicine					
Domain of study	Health						
Academic degree	Dental	Dental Medicine in English					
Level of course	I and I	I and II- License and masters					
Qualification	Doctor	of Dental	Medicii	ne			
Department	4 Com	munity m	edicine				
Discipline	Hygien	ne					
Cours title	HYGI	HYGIENE					
Responsible for lecture	Prof. Dr. Lucia Lotrean						
Responsible for practical	Prof. D	Prof. Dr. Monica Popa					
activity	Prof. I	Or. Lucia	Lotrean				
	Lecture	Lecturer Dr. Bogdana Năsui					
The formative category of	DD						
the discipline							
Compulsory discipline	Compulsory						
hours/week	ho	urs/semes	ter			Type of	
Year Sem C LP/S	C	LP/S	SI	Total	Credits	Assessment	
3 2 1 1	14	14	22	50	2	Е	

Pre-conditions	-	
(Preliminary conditions)		
Requisites for lectures	Use of mobile phone during the lectures is not accepted, being	
and practical activities	a disruptive issue.	
	Students must be in time for the lectures	
	Use of mobile phone during the practical activities is not	
	accepted, being a disruptive issue.	
	Students must be in time for the practical activities	

Professional	• Critical analyses of the quality of the environment from medical
competences	institutions (water, air, surfaces) in relationship with the main health
	risks for the patients and the health staff from medical institutions in

	the field of dentistry
	• Efficient use of measures for prevention and control of nosocomial infections through appropriate management of the environmental factors from dental medical institutions (microbiological contamination of air and surfaces, hygiene conditions and functional
	structure, water use in dental practice, management of solid and liquid waste resulting from medical activities) and medical staff hygiene
	 Correct interpretation and use of the knowledge of human nutrition
	(diet, food products, health status) with a special focus on the oral health. Teaching patients about healthy nutrition and healthy lifestyle.
Transversal	Skills for communication with patients
competences	Involvement in research activities (e.g. writing a medical article)
	Appropriate use of information technology for medical information
	Awareness and involvement in pro-ecological activities associated
	with preventive medicine
General	• At the end of the courses the students will be capable to design, use
objectives	and justify in a correct manner measures for health promotion and disease prevention in the dentistry field both at individual and community level
Specific	At the end of the courses the students will be capable to:
objectives	o To explain the complex relationship between environmental pollution and population health
	 To identify correctly health dangers from the environment and dental medical institutions and to categorise them (physical, chemical, biological, irradiation dangers)
	o To use the principles of food and nutrition hygiene (diet, food products, relationship with health) in the dentistry field
	o To propose and justify recommendations for prevention and control at
	individual and population level in order to minimise the risk on
	human health, with a special focus on oral health

	LECTURES
Teaching	Lecture, interactive presentation
methods	Oral presentations, power point presentations
Content	1. The objective and the role of Hygiene- essential component of
	Primary Assistance of Health. The concept of health and
	prophylaxis in dentistry.
	2. Assessment of the infectious and chemical risk in dental
	practice.
	3. Physical dangers- ionising radiations: sources, ways of exposure
	and effects on human health. Prophylaxis measures.
	4. Physical dangers- non-ionising radiations: sources, ways of
	exposure and effects on human health. Prophylaxis measures.
	5. Toxicology of the environment in dental practice. Risks on
	human health- Heavy metals.

	6. Toxicology of the environment in dental practice. Risks on
	human health- synthetic chemical compounds.
	7. Fundamental conditions of the human habitat hygiene in the
	medical field.
	8. Indoor pollution in relation with human health.
	9. Chemical dangers generated by water consumption and their
	effects on oral health.
	10. Microbiological dangers generated by water consumption and their effects on oral health.
	11. Alimentary behaviour and the nutritional requirements at
	individual level.
	12. The study of nutrients and the relationship between nutrition and oral health.
	13. The diet and the carries: the role of macro and micronutrients in
	the development of carries.
	14. The diet and the carries: vulnerable population groups.
	Prophylaxis and control measures at population level.
	PRACTICAL ACTIVITIES
Teaching	Power point presentation. Interactive teaching. Practical demonstration.
methods	Observations based on medical articles. Recorded demonstrations
	Exercises for risk assessment. Presentation of questionnaires
Practical	Exercises for assessing and characterization of the microclimate in
activity carried	medical institutions in relation with human health.
out by students	Identification of the danger from dentistry medical institutions in
	relationship with the presented situations, use of appropriate measures
	for prophylaxis and control.
	Practical exercises for assessment of active Chlorine in the lab and in
	the field (with a portable device).
	The use of questionnaires and assessment of the risk for oral health.
	Performing of food intake assessment, identification of dangers, use of
	appropriate measures for prophylaxis for carries through diet and alimentary habits
Content	Assessment of microclimate conditions in medical institutions and
Content	their relationship with human health. Norms and recommendations
	in medical institutions.
	2. Case study regarding the microclimate conditions in dentistry
	medical institutions.
	3. Assessment of air and surfaces contamination in dental practice.
	Measures for prophylaxys and control. Legislative measures.
	4. Study case regarding the risks of contamination of air and surfaces in dental practice
	5. Hygiene of dental institutions: equipment, functionality, medical
	staff hygiene
	6. Hygiene of dental medical institution: legislative issues. Measures
	for safety in dental practice.
	7. Solid waste from medical practice: classification, origin, risks of

	avnosura managa	mant lagislativa massur	20		
		ement, legislative measure n medical practice: classit			
	<u> </u>	•			
		ement, legislative measure			
		isinfectants: definition, cl			
		ns and contraindications in	•		
	10. The active chlorine - indicator of the disinfectant potential of				
	disinfectant chlorine based substances in dental practice 11. The water from medical institutions: type, nature, origin and				
			nature, origin and		
	evaluation of risk		1 . 1		
		ling the role of water fron	n dental institutions in		
	relation with hum		1: : 1 1 1 1		
			ndividual and group level		
		in the field of dentistry	6.1 11 6		
		itative and qualitative ass			
D'11' 1		relationship with the risk			
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			ersitară "Iuliu Hațieganu"		
	Cluj-Napoca, 201		for Madical Chadanta		
	2. Popa Monica «Food Hygiene - Textbook for Medical Students», Editura Medicală Universitară "Iuliu Haţieganu" Cluj-Napoca,				
		**	iațieganu Ciuj-Napoca,		
	2016, ISBN 978-973-693-672-2 3. Popa Monica «Environmental Hygiene - Textbook for Medical				
	Students», Editura Medicală Universitară "Iuliu Hațieganu" Cluj-				
	Napoca, 2016, ISBN 978-973-693-671-5				
			ca – "Igienă – suport de		
			licină Dentară", Editura		
			Cluj-Napoca, 2014, ISBN		
	978-973-693-563		2014, ISBN		
			n Dentistry. A practical		
		Wolfe Publishing Ltd, 19			
	<u> </u>		Guidotti T.L "Basic		
		alth", Oxford Univ. Press			
			es - updated materials in		
	electronic format	•	T		
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	50 %	50 %			
final grade:					
	•				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Department			5 Internal Medicine						
Discipline			Medical clinic IV						
Cours	title			INTER	RNAL MI	EDICIN	E		
Respo	nsible i	for lectu	re	Lectur	er Teodo	ra Gabr	iela Alex	escu	
Respo	nsible i	for pract	ical	Lecture	er Teodora	a Gabrie	la Alexes	cu	
activit	$\mathbf{t}\mathbf{y}$			Lecture	er Calin V	asile Vla	ad		
				Univer	sitary Pro	ffessor V	acancy 1	4	
			Assistant Vacancy 128						
				Assistant Vacancy 130					
				Assistant Vacancy 130					
The fo	The formative category of			DS					
the di	the discipline								
Comp	Compulsory discipline		Compu	lsory					
* 7	hours/week		ho	urs/semes	ter	Type		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	1	2	14	28	33	75	3	E

Pre-conditions (Preliminary	Knowledge of Medical Semiology, Anatomy,
conditions)	Physiology, Physiopathology
Requisites for lectures and	Amphitheatre with projection system
practical activities	Patient rooms with beds

Professional	Capacity of using the semiologic terminology in specific situations and always in a the semiologic terminology in specific situations
competences	and choosing the correct diagnostic algorithm
	Capacity of communication with the medical community
	Critic evaluation, synthesis of disease manifestations
	Applying the already learned techniques of examining the patient
	Gathering experience in using the medical instruments (eg.)
	Stethoscope)
	Correct interpretation of paraclinic examinations
	The capacity to integrate the anamnestic findings, the objective data
	and the paraclinic data in the syndrome diagnosis
	Discussing the differential diagnosis
	Development of the medical rationale
	• Learning notions needed to apply prevention in the stomatology field
	Making the correct diagnosis of an emergency in the stomatology
	cabinet
Transversal	Being able to apply the new findings into their future job routine
competences	Applying the new theoretical knowledge in practical activity
	Making new correlations in various fields
General	Presenting the data regarding the symptoms, signs, explorations, in
objectives	order to create the correct clinical picture
	• To be able to conduct the further investigations in order to reach the

	 final diagnosis Creation of a precise, consistent and useful medical language Learning the basic concept of internal medicine, in close relationship with the dental pathology
Specific objectives	 Applying the right technique of anamnesis and clinical examination, conducting the future investigations and formulating the syndrome diagnosis, the differential diagnosis and the final diagnosis Development of the medical rationale for each case

	LECTURES							
Teaching	Lecture, Systematic and Interactive Presentation							
methods								
Content	1. Acute Trachea-Bronchitis, Chronic Bronchitis, Pulmonary							
	Emphysema, Chronic Obstructive Pulmonary Disease (COPD)							
	2. Asthma, Pneumonia, Pleurisy, Lung Cancer							
	3. Valvular Diseases, Infectious Endocarditis							
	4. Ischemic Heart Disease, Cardiomyopathy, Angina Pectoris,							
	Myocardial Infarction							
	5. Hypertension, Heart Failure							
	6. Atherosclerosis, Artery Disease, Venous Disease, Pulmonary							
	Thrombo Embolism, Chronic Pulmonary Heart Disease							
	7. Kidney Disease: Acute And Chronic Glomerulonephritis,							
	Pyelonephritis, Kidney Stones, Kidney Failure							
	8. Gastroesophageal Reflux Disease, Reflux Oesophagitis, Oesophageal							
	Cancer, Gastritis, Gastric Ulcer, Duodenal Ulcer, Gastric Ulcer							
	9. Inflammatory Bowel Disease, Colorectal Cancer, Irritable Bowel							
	Syndrome							
	10. Chronic Hepatitis, Liver Cirrhosis, Liver Cancer							
	11. Gallbladder Stones, Acute Cholecystitis, Angiocolitis, Acute And							
	Chronic Pancreatitis, Pancreatic Cancer							
	12. Diabetes Mellitus							
	13. Obesity, Dyslipidemia							
	14. Metabolic Syndrome, Anemia							
	PRACTICAL ACTIVITIES							
Teaching	Practical teaching near the patient's bed							
methods								
Practical	Anamnesis, Clinical examination, Building a diagnosis							
activity carried								
out by students								
Content	1. Objectives and importance of internal medicine for dentistry practice.							
	Clinical cases presentation with acute and chronic tracheobronchitis,							
	pulmonary emphysema, chronic obstructive pulmonary disease (COPD)							
	2. History and physical examination in asthma, pneumonia, pleurisy							
	3. Acute rheumatic fever, valvular diseases, infectious endocarditis –							
	clinical presentation, preventive therapy of infectious endocarditis for							

	patients with valvular	diseases or bleeding in de	ental surgery				
	4. Clinical discussions	and presentations of isch	emic heart diseases,				
	cardiomyopathy						
	5. Hypertensive emerg	gencies – the attitude of th	e dentist				
	•	olism, chronic pulmonary	heart diseases –				
	emergency diagnosis and therapeutic conduct						
	7. Kidney disease – cl						
		nal diseases, case presenta	tions, emergencies,				
	therapeutic attitude						
		eding,lower digestive blee	•				
		ent of patient in emergen					
		liver cirrhosis: aetiology,					
		entist`s attitude in viral liv					
		atic pathology – presentat	tion of clinical cases,				
	discussions						
	12. Diabetes mellitus: overview, case presentations						
		complications, importance					
	14. Anaemia, leukocytosis, disorders of haemostasis, importance in						
	dental practice						
Bibliography	1. Lectures		224 114 2007				
		of Medicine – Lee Goldr					
	3. Bates's Guide to Physical Examination and History Taking, 12th						
	Edition, 2017						
	4. Teodora Alexescu (coord)- Internal Medicine Pocket Book, 2018						
Evaluation:	5. Harrison principle of Internal Medicine, 20 th edition, 2021						
Evaluation:	Written exam Practical exam Activity during the						
D 4 . 6 (1	600/	semester:					
Percent of the	60%	30%	10%				
final grade:							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	3 Oral Rehabilitation
Discipline	Prevention in Dentistry
Cours title	ORO-DENTAL PREVENTION
Responsible for lecture	Lecturer Dr. Iulia Badea
Responsible for practical	Lecturer Andrei Picoș
activity	Lecturer Dr. Iulia Badea
The formative category of	DS
the discipline	

Comp	Compulsory discipline		Compulsory						
	7	hours/week		ho	urs/semes	ter		~ ·:	Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
3	2	2	3	28	42	30	100	4	Е

Pre-conditions	Basic knowledge of anatomy, physiology and physiopathology
(Preliminary	of the oral cavity, dental propaedeutics
conditions)	Ergonomics in dentistry
Requisites for lectures	Amphitheatre with projector system and/or on line
and practical activities	Laboratories with specific requisites for the practical activities

Professional	The capacity of employing the specialty terminology in an adequate					
competences	manner and in context					
_	• Acquire notions of dental prevention for adults and the elderly.					
	Knowing various dental diagnostic methods: clinical methods, visual					
	methods (caries indices), paraclinical methods (diagnodent) and					
	imagistic methods (radiography)					
	Obtaining knowledge of dental plaque control using different methods					
	Perfecting the capacity to assess the carious risk level. Modern carious					
	detection and assessment methods (ICDAS II, Diagnodent)					
	• Acquiring the practical experience necessary in order to be able to use					
	correctly the appropriate instruments for performing the dental caries					
	prophylaxis stages using different methods and materials.					
	• Perfecting the capacity to render the theoretical knowledge of oral cancer prevention and the correct therapeutic conduct in respect to					
	patients with general pathologies					
Transversal	 The capacity of employing the learned notions in a new context 					
competences	 To apply the theoretical knowledge in the practical activity 					
_	 Establishing interdisciplinary correlations between the studied subjects 					
General	Acquiring knowledge of dental pathology prophylaxis for adults and					
objectives	the elderly. Treating patients with general health concerns.					
Specific	Acquiring knowledge of dental prevention for adults and the elderly.					
objectives	• The introduction of dental plaque control notions.					
	• Acquiring knowledge of the auxiliary means of hygiene and					
	personalizing their usage.					
	• Determining the level of carious risk. Modern methods for the					
	diagnosis of the incipient carious lesion (ICDAS II, Diagnodent).					
	Salivary testing.					
	Aspects of minimally invasive dentistry					
	Chronic periodontal disease prevention (primary, secondary, tertiary)					
	• Particularities of the prevention of oral pathologies in the elderly.					
	• The prevention of the root caries.					
	Prevention of oral cancer					

- Prophylactic considerations for the therapeutic conduct in patients with general health concerns.
- Cross-infection control in the dental office.

	LECTURES
Teaching	Lecture, interactive, systematic presentation. Oral presentations,
methods	Power-Point presentations.
Content	1. Clinical considerations patients with general diseases. Dental
	prevention for adults and elderlies. General aspects
	2. Prevention of the dental caries for adults. The concept of
	dispensarization for patients with carioreceptivity. Risk evaluation chart for dental caries.ICDAS
	3. Periodontal disease prevention and management in adults and elderly
	The features of the mechanical control of the bacterial plaque for adults
	The electrical and the sonic toothbrush. Individualizing the auxiliary
	means of oral hygiene. The chemical control of the bacterial plaque:
	toothpaste and other dentifrices.
	4. Supra and sub gingival scaling (manual and mechanical devices).
	Individualised ergonomie for periodontal scaling
	5. Isolation and soft tissue management. Dental damm.
	6. Fissure caries prevention. Special prevention measures for the fissure
	caries of patients with high carioreceptivity. Invasive Sealing.
	Indications, technique, commercial products. Approximal caries
	prevention.
	7. Maintenance of oral hygiene in adults and elderly patients with
	prosthetic works: Bridges, Implants, total prothesis etc.
	8. The features of the orodental diseases prevention for elderlies. Root
	caries prevention and management: Definition, means of prevention.
	Xerostomia: definition, etiology, practical means of prevention.
	9. Oral cancer prevention and tracing pre-malignant lesions at the level of the oral mucosa.
	10. Halitosis. Etiology, means of prevention
	11. Preventive attitude towards patients with general diseases.
	Cardiovascular diseases, blood disorders. Bacterial endocarditis
	prevention.
	12. Preventive aspects regarding the therapeutical behaviour towards
	patients with malignant diseases. The dental approach of the patients
	undergoing chemotherapy and radiotherapy. Aspects regarding oral
	hygiene for patients with malignant diseases.
	13. Aspects regarding dental prevention for patients with endocrine
	disorders.Preventive dentistry in patients with diabetes
	14. The cross-infection control in the dental office.
	PRACTICAL ACTIVITIES

- ·								
Teaching	Interactive discussions. Demonstrations on film. Presentations on the							
methods	model. Demonstrations on the model. Demonstrations on a clinical case							
Practical	Performing the learned techniques on the model and clinically on a							
activity carried	patient.							
out by students								
Content	1. Preventing nosocomial infections. Means of transmitting infectious-contagious diseases in the dental office. Bacteremia beginning in the oral cavity. Preventing disease transmission. Pathogenic transmitting							
	agents from the oral cavity							
	2. The acknowledgement and demonstration - on the typodont and in the patient's oral cavity - of the main and auxiliary means of oral hygiene							
	3. Quantification methods for oral health condition. Determining oral hygiene indices (OHI-S), dental plaque indices (API, O' Leary), periodontal inflammation indices (BI, PBI, CPITN							
	4. Assessing dental mobility by means of the periotest.							
	5. Local administrations of fluorides. Professional fluoridation (fluoride							
	pharmaceutical appearance, application methods, commercial products).							
	Assessment of the fluoride pharmaceuticals. Sanitary education							
	individualized on age groups and closely related to the existing dental							
	and periodontal features and restorations.							
	6. Primary prevention of dental caries. Preventive sealing.							
	7. Fissure caries prevention. Special prevention measures of fissure caries for patients with high carioreceptivity. Extensive sealing. Approximal caries prevention. Bitewing X-Rays for the assessment of							
	the approximal caries in remineralization stage.							
	8. Carioreceptivity evaluation chart. Minimum invasive therapy protocol for carious lesions in precavitary, reversible stage.							
	9. Mechanical scaling, professional brushing.							
	10. Mechanical scaling, professional brushing.							
	10. Mechanical scaling, professional brushing. 11. Iatrogeny prevention. Using doges, interdental matrices and wedges in accomplishing II nd , III rd and IV th class fillings. Polishing and brushing the dental fillings.							
	12. Oral cancer prevention and tracing precancerous lesions at the level							
	of the oral mucosa. Oral hygiene for patients with general diseases.							
	13. Sanitary education lessons in adult and elderly communities in Cluj.							
	14. The presentation of the dental prophylaxis project + interview							
Bibliography	1. Welbury R, Duggal MS, Hosey MT. Paediatric dentistry. Oxford							
	University Press, Fifth edition 2017							
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		oiPinto, AndrésTreister,					
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	· ·	A. OJordan, Richard C	C. K.,-Oral Medicine,				
	Manson Publishin		ndina Dandiadan Ialaa				
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	Wiley & Sons, Inc.,2012						
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	11. Patton, Lauren L. The ADA Practical Guide to Patients with						
	Medical Conditions, John Wiley & Sons, Inc., 2012						
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	art and science of operative dentistry, St. Louis, Missouri: Elsevier,						
	[2019]						
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	40%	40%	20%				
final grade:							

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgr	aduate	studies		Cluj-Napoca						
Facult	t y			Dental	Medicine					
Doma	in of st	udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engli	sh			
Level	of cour	:se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medicii	ne			
Depar	tment			4 Prost	hetics and	Dental	materials			
Discipline			Prosthetic Dentistry							
Cours title			PROSTHETIC DENTISTRY							
Responsible for lecture			Lect. Dr. Andreea Kui							
Responsible for practical			Lect. D	r. Andree	a Kui					
activity			Assist.	Dr. Roxa	na Triști	u				
The fo	rmativ	e catego	ry of	DS						
the dis	the discipline									
Compulsory discipline		Compulsory								
**	$\begin{array}{c c} Year & Sem & \frac{hours/week}{C} \\ \hline C & LP/S \end{array}$		/week	ho	urs/semes	ter	Tvp		Type of	
Year			LP/S	C	LP/S	SI	Total	Credits	Assessment	
3	2	2	4	28 56 66 150 6 E			Е			

Pre-conditions	- Knowledge of the morphology of the teeth and dental arches

(Preliminary conditions)	- Knowledge of the technology needed in order to achieve single-tooth fixed prosthetic crowns (from preclinical years)		
Requisites for	Amphitheater with computer and projector system		
lectures and practical	Laboratories with simulators, dental micro-motors and hand		
activities	pieces		

Professional	Clinical evaluation of patients with dental crowns destructions		
competences	Correct interpretation of additional elements provided by		
	complementary examinations (especially for substitution crowns)		
	Knowledge of all types of single tooth fixed prosthesis: by		
	reconstruction method, coverage and substitution method		
	Acquiring general knowledge of the maxillary system which provides		
	information needed for the design of single-tooth fixed prosthesis type		
	indicated in the treatment plan.		
	• Knowledge of the clinical and technical stages for the execution of a		
	single-tooth fixed prostheses		
Transversal	The use of the notions acquired in different clinical situations		
competences	Application of the theoretical knowledge in practice		
_	• Establish interdisciplinary correlations allowing a complete treatment of		
	clinical cases, according to current aesthetic and functional		
	requirements.		
General	• Knowledge of all types of single-tooth fixed prosthesis (reconstitution,		
objectives	coverage and substitution) and gaining the necessary practical skills for		
	tooth preparation for each type of dental crown		
Specific	• Knowledge of the objectives and contingencies in fixed prosthodontics.		
objectives	• Study of dental crowns destructions that may benefit from treatment		
	with single-tooth fixed prosthetic crowns		
	• Presentation of general principles: ergonomic, biomechanical and bio-		
	functional for single-tooth fixed prosthetic crowns		
	• Presenting all types of single-tooth fixed prosthetic crowns: rebuilding		
	and replacement coverage.		
	• Knowledge of all maneuvers included in the clinical and laboratory		
	sequence for the execution of single-tooth fixed prosthetic crowns		
	• Winning the necessary practical skills for tooth preparation, taking into		
	account the general principles of preparation: ergonomic, biomechanical		
	and bio-functional (through dental preparations in the laboratory, on		
	simulators).		
	Practicing the ability of synthesis and reference documentation		

LECTURES				
Teaching	Teaching Lectures, systematic oral presentation, interactive discussions			
methods				
Content	1. Dental prosthetics: contents, objectives. Destructions of dental			
	crowns: etiology, symptoms, clinical exam, diagnostic, evolution and			
	complications. Clinical forms			

2. General notions about prosthetic treatment in crown destruction. Classification of single-tooth crowns. Basic principles in the preparation of teeth (ergonomic, biomechanical and bioprofilactic). 3. Tooth preparation in the cervical area; level of the cervical limit of the preparation; configuration of the preparation limit. Access techniques to the under-gingival limits. 4. Crown restoration by inlay (indications, contraindications, advantages, disadvantages). Preparing teeth for inlays. Accidents and complications after the application of inlays. 5. Dental crowns (indications, contraindications, advantages, disadvantages). Metal crowns. Preparing teeth to for metal crown. Errors, accidents, complications. 6. All ceramic dental crowns. Ceramic crown: advantages, disadvantages. General principles in preparing teeth for full ceramic crowns. Full ceramic systems. Choosing dental colors. 7. Polymeric dental crowns. Veneering of the teeth: indications, contraindications, advantages, disadvantages. Preparation for veneers. 8. Mixed crowns: indications, contraindications, advantages, disadvantages. Preparing teeth to achieve mixed crown covering. Types of mixed crowns. 9. Impression taking. Materials. Techniques. 10. Provisional crowns: objective classification. Prefabricated temporary crowns and made. Testing and adaptation of crown cover. 11. Metallic partial crown = metallic onlay: indications, contraindications, advantages, disadvantages. Onlay preparation. 12. Esthetic partial crowns. Partial crowns and adhesive bridges 13. Crown substitution: indications, contraindications. Teeth preparations. Reconstructions with metallic and carbon fiber post-andcores and composite resins. Sample and cementing posts. 14. Crown cementation. Complication after cementing single-tooth fixed prosthetic crowns. Damage, repair and removal of single-tooth fixed prosthetic crowns. PRACTICAL ACTIVITIES **Teaching** Information upon the maneuvers to be executed; conversation, video methods and picture illustration, demonstrations of the tooth preparation maneuvers. **Practical** Preparation of the required teeth on models/simulators, in order to activity carried apply a particular type of single-tooth fixed prosthetic crown. Impression taking and discussions over impressions out by students Examination of complete arch and partial impressions; Clinical examination carried out among students. 1. Knowledge of examination and abrasion instruments. Work safety Content instructions. Training for use of simulators and lab motors. Distribution of the models. 2. Preparation of M3 for a cast all metal crown, vertiprep.

Evaluation:	Team. 2016;3(2):8–10. 9. Porter M, Adarve R. Fabrication of Provisional Restoration Using Direct Technique. MedEdPORTAL. 2011;7(1). Written exam Practical exam Activity during the				
	7. Ricketts D, Barlett D. Advanced Operative Dentistry. Edinburgh: Elsevier Churchill Livingstone; 2011.8. Dubal R, Buth S. Practical prosthodontics for the dental team. BDJ				
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			ternational Publishing; 2019.		
	2012.		orations; Concepts and		
		•	tive Dentistry, Paediatric nurchill Livingstone Elsevier;		
	9780723435556		evine DMD, Elsevier, ISBN:		
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Bibliography	0 0		D ,,Fundamentals of fixed bl. Co. Chicago-Tokyo, 2012.		
	rotary instruments.	actical examination. F	Revising the knowledge and		
	examination of static	and dynamic occlusion	on.		
		-	sion and framework for e). Patient examination,		
	13. Presentation of o	clinical stages for den	tal crown replacement.		
			crown, stratified systems wn (cast post and core).		
	10. Preparation of LI		anavym stratified systems		
	9. Preparation of CI for full ceramic crown with stratification.				
	8. Preparation of PM1 (with adjacent teeth) for a metal-ceramic crown				
	-	2 (without adjacent te	eeth) for a metal-ceramic		
	6. Preparation of PM2 for a monolithic ceramic crown.				
		for partial crown (ov	inlays, endocrown, tabletop.		
		for a monolith crown			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine

Domain of study			Health						
Acade	mic de	gree		Dental Medicine in English					
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	line			Dental	Radiolog	y			
Cours	title			GENE	RAL RA	DIOLO	GY		
Responsible for lecture Lecturer Dr. Raluca Roman									
Respo	Responsible for practical Lecturer Dr. Raluca Roman								
activit	y			Lecturer 24 Vacant					
	- 			Assist. 52 Vacant					
The fo	The formative category of			DD					
the dis	the discipline								
Comp	Compulsory discipline			Compulsory					
X 7	2	hours/week		hours/semester		m . 1	G 11.	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	1	2	14	28	33	75	3	Е

Pre-conditions (Preliminary conditions)	Basic notions in the field of physics - elementary particles of the atom, the electric charge of atomic particles, atomic models, atomic number, mass number; Notions of electricity and electromagnetism, forces and fields Notions of dento-alveolar anatomy and skull anatomy
Requisites for lectures and practical activities	Amphitheatre with projector Laboratories with radiological and specific equipment for practical activities in the field of radiology

Professional	The ability to use specialized terminology, properly and contextually
competences	Acquire the knowledge of the concepts of radiological dental-alveolar and maxillofacial anatomy
	Acquiring the concepts of radiation physics
	Acquiring the experience and practical skills necessary to use the
	radiological equipment for performing radiographies
	• Experience gain in interpreting the quality of radiographs, detecting errors and their repair techniques
	Experience gain in recognizing radiological and imaging exams in the dental and maxillofacial regions
Transversal	Using assimilated notions in new contexts
competences	The application of theoretical notions in practical activity
	Personal professional development
	Establishing interdisciplinary correlations in the fields studied
General	Theoretical and practical knowledge of the radiological equipment in
objectives	dental radiology and its use, detecting and repairing the errors, notions

	of radioprotection in the dental radiology office				
	Knowledge of the dental-periodontal and maxillofacial radiological				
	anatomy				
Specific objectives	 Acquiring the concepts of radiation physics, understanding the mechanism of radiological image formation Knowledge of the general radioprotection and radiobiology notions, as well as of the concepts of radioprotection applied in the dental radiology office; The ability to use the specialized terminology properly and contextually Acquire the knowledge of the concepts of radiological dento-alveolar and maxillofacial anatomy Acquiring the experience and practical skills necessary in the use the radiological equipment for performing the radiographs Gain experience in interpreting the quality of radiographs, detecting errors and their repairment Gain experience in recognizing the aspect of radiological and special imaging in dental and maxillofacial regions Understanding the principles of CBCT image acquisition, and knowledge of the examination technique 				
	• Understanding the principles of the technique in computer tomography,				
	magnetic resonance imaging and echography				

	LECTURES				
Teaching	Lecture, systematic oral and visual Power-point, interactive				
methods	presentation				
Content	1. General radiology concepts. Radiation physics: how to produce X-radiation, the properties of X-radiation and their interaction with matter				
	2. Radiation physics: The radiological image, characteristics, quality				
	criteria, the plan for examining a radiological image				
	3. Notions of radiobiology and radiation dosimetry.				
	4. Notions of radioprotection general, and specific for the dental				
	radiology office				
	5. Radiological equipment used in the diagnosis of dento-periodontal				
	lesions: dental Roentgen equipment, orthopantomograph equipment				
	6. Radiological detectors: radiological film, types of films, digital				
	intraoral sensors, image formation, radiological film processing, digital				
	image formation				
	7. Quality Assurance in dental radiology, digital image quality				
	parameters				
	8. Infection control in radiology offices: Risks of infections, measures				
	for the infection control				
	9. Intra-oral radiography technique: periapical radiography - isometric				
	and paralleling technique, bitewing radiography, occlusal radiography;				
	technical errors				
	10. Extra-oral radiography technique: panoramic radiography,				

	principles, quality criteria, technique errors, skull radiographs			
	11. Normal radiological anatomy in intra-oral and extra-oral radiographies,			
	0 1			
	12. Dental volumetric tomography (CBCT) technical principles,			
	practical guide of recommendations			
	13. CBCT- Sectional maxillofacial anatomy			
	14. The physical principles of ultrasound, MRI techniques. The physical			
	principles of CT examination comparative with CBCT			
	PRACTICAL ACTIVITIES			
Teaching	Systematic real-time demonstrations, conversation, problem solving			
methods	exercises, practical, active, independent implementation			
Practical	Performing radiographic examinations: dental intraoral radiographs,			
activity carried	panoramic radiographs, CBCT examinations, use of the CBCT imaging			
out by students	viewer with the necessary reconstructive maneuvers, recognition of			
	errors on intraoral and extra-oral images, artifacts in CBCT,			
	identification of anatomical structures on radiological images			
Content	1. Structure of the radiological equipment (Rontgen tube, control			
	table, examination parameters). How to organize a dental			
	radiography laboratory Demonstration of radiation protection			
	measures in the dental radiology office			
	2. Obtaining the radiographic image. Radiological film processing.			
	The radiological film. Digital sensors and digital processing.			
	3. Radiological equipment used in the dento-periodontal lesions			
	diagnosis: dental Roentgen equipment, the orthopantomograph;			
	demonstration of operating principles			
	4. Processing errors. Radiological film quality. Plan to examine a radiological image			
	5. Performing intra-oral radiographs using isometric bisecting angle			
	technique-technique errors			
	6. Performing intra-oral radiographs using the paralleling technique -			
	technique errors			
	7. Performing intra-oral radiographs – Bitewing and occlusal			
	radiography - technique errors			
	8. Normal radiological anatomy of intra-oral radiographs			
	9. The technique of extra-oral radiography: panoramic radiography;			
	principles of technical functioning			
	10. Recognition and correction of technical errors in			
	orthopantomography Normal radiological anatomy on panoramic			
	radiography			
	11. Dental volumetric tomography (CBCT) presentation of equipment,			
	technical performance of various examinations, evaluation of image			
	quality, artifacts, practical guide of recommendations			
	12. Dental volumetric tomography (CBCT) - presentation of the			
	visualization program, standard sections, obtaining individualized			
	reconstructions, use of the program tools			
	13. Radiological anatomy in CBCT - recognition of dental and			
L				

	maxillofacial anatomical structures in the different CBCT				
	sequences of the program				
	14. Presentation of ot	ther imaging systems: ul	trasound, CT, MRI; basic		
	notions				
Bibliography	1. Hedeşiu M. Radio	ologie orală. Ghid practi	ic de tehnică, anatomie și		
	semiologie radiologic	eă. Editura medicală, Buc	curești 2021		
	2. Whaites E. Essentials of Dental Radiography and Radiology.				
	Churchill Livingstone, 5th ed., 2013				
	3. White CS, Pharoah MJ. Oral radiology. Principles and interpretation.				
	Elsevier 2019				
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	40 %	50 %	10 %		
final grade:					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca						
Facult	t y			Dental Medicine						
Doma	in of st	udy		Health						
Acade	mic de	gree		Dental	Dental Medicine in English					
Level	of cour	:se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor of Dental Medicine						
Depar	tment			Conservative Odontology 2						
Discipline				Odontology						
Cours title				MEDICAL PRACTICE						
Responsible for lecture				Lecturer Dr. Radu Chisnoiu						
Responsible for practical										
activity										
The fo	The formative category of			DS						
the discipline										
Compulsory discipline			Compulsory							
***	Sem	hours/week		/week	hours/semester		m . 1	G 11.	Type of	
Year		C	LP/S	C	LP/S	SI	Total Credi	Credits	Assessment	
3	2	0	40	0	160	_		2	С	

Pre-conditions	Patient examination knowledge, simple and complicated dental caries
(Preliminary	notions, dental prevention knowledge, notions about various methods
conditions)	of anesthesia used in dentistry, dental materials knowledge
Requisites for	Dental offices with dental units needed for practical activities on
lectures and	patients
practical	Attendance is mandatory in a proportion of 100%.
activities	Filling in the summer medical practice notebook, in accordance with
	the curriculum

Professional competences	Medical practice activities in dental offices
Transversal competences	 Ability to work in a team during therapeutic procedures Applying theoretical notions in practical activities The use of assimilated notions in particular contexts, specific to each case
General objectives	Acquiring the knowledge of the working of dental medicine units
Specific objectives	 Knowledge of the working of dental medicine offices, the patients' and dental instruments' circuits Learning and exercising the examination of patients Filling in the patient's record with data obtained during the dental examination in order to establish a positive diagnosis of simple dental caries and a suitable therapeutic plan Practical application of dental prevention procedures Reminding and practicing dental anesthesia Practicing dental material preparing Learning notions regarding preparation of the instruments for disinfection and sterilization and regarding instrument sterilization

	PRACTICAL ACTIVITIES				
Teaching	Interactive discussions, demonstrations, practice				
methods					
Practical	Exercises for instruments recognition and description.				
activity carried	Realizing the preparations procedures for instrument sterilization.				
out by students	Patient examination and data record				
	Basic patient care procedures.				
Content	1. Knowledge of the structure and functioning of the dental office				
	2. Knowledge of the medical records and documents used in the medical				
	unit				
	3. The preparation of medical instruments: washing, degreasing, syringe				
	and needle control, sterilization, the maintenance and route of sterile				
	materials				
	4. Elementary sterilization practices: chemical sterilization, steam				
	sterilization, modern techniques of sterilization.				
	5. The disinfection of the dental office.				
	6. Knowledge of the protection methods against infectious diseases in				
	the dental office.				
	7. Development of communication skills with the patient: patient				
	history, informing and educating the patient. Development of special				
	communication skills according to: sex, age, childhood, incurable,				
	terminally ill or non-cooperating patient. Communicating with the				
	patient's family.				
	8. Development of clinical examination skills: physical examination,				
	palpation, auscultation, percussion and special examination techniques:				

	(measuring blood pre	ssure, temperature, pul	se)				
	9. Diagnosing the simple and complicated caries						
	10. Basic patient care procedures						
	11. The knowledge of	f prophylactic procedu	res				
	12. Identifying and hi	ghlighting bacterial pl	aque				
	13. Scaling and profe	ssional teeth brushing					
	14. The preparation o	f dental materials for i	mpressions, fillings, luting				
	etc.		-				
	15. Practicing topic and local anesthesia (supraperiostal, inferior						
	alveolar nerve anesthesia etc.)						
	16. Completion of medical charts						
	17. Elaboration of treatment plans						
Bibliography	-						
Evaluation:	Written exam	Practical exam	Activity during the semester:				
Percent of the	1000/						
final grade:	100%						

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca						
Facult	ty			Dental Medicine						
Doma	in of st	udy		Health	Health					
Acade	mic de	gree		Dental Medicine in English						
Level	of cour	:se		I and I	I- License	and mas	sters			
Qualit	fication	1		Doctor	of Dental	Medicii	ne			
Depar	tment			12 Medical education						
Discip	line			Moder	n language	es				
Cours title			ROMANIAN LANGUAGE – SPECIALITY							
				NOTIONS						
Responsible for lecture			-	-						
Responsible for practical			Assist. Prof. Anca Hassoun							
activity										
The fo	ormativ	e catego	ry of	DC						
the discipline										
Compulsory discipline			Compulsory							
37	Sem	hours/week	/week	ho	urs/semes	s/semester T + 1 C 1:		Type of		
Year		C	LP/S	С	LP/S	SI	Total Credit	Credits	Assessment	
3	1, 2	0	4+4	0	56+56			1	С	

Pre-conditions	-
(Preliminary conditions)	
Requisites for lectures and	To respect the rules and regulations for practical activities

practical activiti	ies
Professional	• The ability to properly employ Romanian (listening, reading, speaking,
competences	writing) in order to communicate in general contexts, both academic
	and medical
	The ability to use medical terms specific to various fields
Transversal	• The ability to employ prior knowledge of Romanian in medical and
competences	academic activities in order to communicate adequately in Romanian
	• The ability to make interdisciplinary connections in the fields of study
General	Development of competences in general Romanian and in academic
objectives	medical language
Specific	At the end of the seminar, the learner will be capable to:
objectives	speak about education for health

• give explanations on the primary and the secondary dentition

• make a presentation on some of the oral affections

speak about education for health communicate with a patient speak about dental prophylaxis

	PRACTICAL ACTIVITIES					
Teaching	Interactive teaching and multimedia support					
methods	interactive teaching and marininear support					
Practical	Specific exercises and activities (individual, in pairs or in groups)					
activity carried	aiming to develop the main competences in Romanian (speaking,					
out by students	listening, reading, and writing)					
Content	1. The dental practise					
	2. Verbs in past tense continuous					
	3. Dental instruments					
	4. Verbs in imperative					
	5. The oral hygiene					
	6. Degrees of comparison in adjectives					
	7. Making an appointment					
	8. Reflexive verbs					
	9. Dental pain					
	10. Nouns in the genitive case					
	11. Gingivitis					
	12. Pronouns in the dative case					
	13. Dental veneers					
	14. Verbs in the conditional mood					
	15. Dentures and implants					
	16. Verbs in the subjunctive mood					
	17. Deciduous teeth. Diminutives					
	18. Eruption problems. Interrogative pronouns					
	19. Baby bottle tooth decay					
	20. The noun-adjective agreement					
	21. Malpositions, malocclusions					

Percent of the final grade:	33%	33%	34%			
Evaluation:	Written exam	Practical exam	Activity during the semester:			
Evolvetien	Echinox, 2003.	Dwa etias Larrare	A ativity, decima 4h -			
	_ ·	cu sau fără profesor. Ed	liția V, Cluj-Napoca, Ed.			
	, , ,	l-A2. Cluj-Napoca, Casa				
		ı, I., Vîlcu, D. Manual d	e limba română ca limbă			
	2009.	Emioa fomana pentitu s	nann. 1aşı, Eu. 1 omoni,			
	European, 1999.	Limba română nentru s	trăini. Iași, Ed. Polirom,			
	T =	ea, M. Limba română de	bază. Iași, Ed. Institutul			
	1996.					
	I =		Limba Română. Manual niversității din București,			
	2001.	ocau A. Caramandu M	Limba Damână Manual			
	7. Bejan, D. Grama		a III, Cluj, Ed. Echinox,			
		', Cluj-Napoca, 2017	a medicaia Universitala			
			iug A., Gogâță A., <i>Limba</i> a Medicală Universitară			
		sitară "Iuliu Hațieganu", (2 2			
	A., Limba român	ıă. Elemente de limbaj m	edical. Nivel A2, Editura			
		iu Hațieganu", Cluj-Napo piagă A., Coiug A., Andr	ca, 2017 eica A., Băgiag A., Ursa			
		-	ediar, Editura Medicală			
			ogâță C., Tomoiagă A.,			
		ptactica stomatologi iu Hațieganu", Cluj-Napo				
			C., Tomoiagă A., Limba			
		licală, Cluj-Napoca, 2018	, , , , , ,			
			Coiug A., Andreica A., tudenții Erasmus, Editura			
		ară Medicală, Cluj-Napod				
	Băgiag A., Limba	a română pentru practica	stomatologică. Nivel B1,			
Bibliography			Coiug A., Andreica A.,			
	27. Dental emergence 28. Oral examination	ies. Negative adverbs and	pronouns			
	26. Indefinite adverbs and pronouns					
	25. Implants					
	24. Verbs in the futur					
	23. Root canal treatm					
	22. Relative pronoun	<u> </u>				

4TH YEAR

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
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postgraduate studies			Cluj-Napoca						
Faculty				Dental Medicine					
Doma	in of st	udy		Health					
Academic degree				Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			6 Medi	cal specia	lties. 4 (Communi	ty Medicin	ie
Discip	line			Infection	ous diseas	es. Epide	emiology		
Cours title				INFEC	CTIOUS I	DISEAS	ES. EPII	DEMIOL	OGY
Responsible for lecture			Lecturer Dr. Monica Muntean						
_			Assoc. Prof. Dr. Amanda Radulescu						
Respo	nsible	for pract	ical	Assist.	Teodora l	Iacob			
activit	y			Assist.	Dnd. Mih	nai Rus			
				Lecture	er Radu T	udor Coı	nan		
		ve catego	ry of	DD					
	scipline								
Comp	Compulsory discipline		Compulsory						
37	C	hours	/week	ho	urs/semes	ter			Type of
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
4	1	2	2	28	28	19	75	3	E

Professional

Pre-conditions	Microbiology, Internal Medicine, Medical Semiology,
(Preliminary conditions)	Pediatrics
Requisities for lectures	Students will not be allowed at the practical works with open
and practical activities	phones and phone calls will not be acceptable during the
	courses or students leaving the classroom to retrieve personal
	telephone calls.
	In delay presentation for the courses and practical works is not
	acceptable as it proves disruptive to the educational process.

competences	• Ability to enunciate differential diagnosis for an infectious diseases
	included in thematic
	Ability to interpret laboratory and paraclinical results
	Ability to formulate recommendations for etiological therapy
	• Achieve the ability to apply the measures of prevention and control
	of healthcare associated infections and the dental practice
	characteristics.
	• Students will:
	o integrate the role of epidemiology in understanding the impact and

achieve the useful knowledge in planning epidemiological studies; earn the ability to evaluate the evidence brought by clinical

Ability to formulate a positive diagnosis of an infectious disease

- - epidemiology with application in disease prevention and control;

the causes of health related events;

	o interpret and apply the concepts of the infectious disease
	epidemiology with significance in dental medicine;
	o integrate the role of active immunoprophylaxis in disease prevention;
Transversal	Applying in medical practice, assimilated notions into an emerging
competences	and re-emerging infectious medical context
competences	
	Applying theoretical notions into practical work Detail in integral in integral in a property of the conditions within the condition.
	Establishing interdisciplinary correlations within the studied domains
	Built up the professional development by engaging critical thinking skills and understanding through the use of the opidemiological.
	skills and understanding through the use of the epidemiological method.
	• Integration of the epidemiological approach into the concept of preventive medicine.
General	
objectives	• Identification and understanding the current context of infectious diseases at regional, national and international level (clinical
objectives	manifestations, clinical forms, complications and clinical evolution of
	•
	emerging and re-emerging infectious diseases with impact on dental specialty).
	Formulation of positive diagnosis of infectious disease and/ or differential diagnosis with other non-infectious diseases based on
	epidemiological, clinical and paraclinical data (hematological,
	biochemistry, microbiological, serological, complementary).
	 Establishing the correct therapeutic attitude (etiological,
	pathogenetic, symptomatic treatment) in infectious diseases.
	 At the end of the course the students will have the basic knowledge
	and skills to apply the concepts of epidemiology in promoting health
	and disease prevention within communities and in health care services.
Specific	 Knowing the importance of infectious diseases under emergence
objectives	and/or re-emergence of new pathogens.
objectives	 Establishing therapeutic attitude taking into account the evolutionary
	and prognostic particularities of infectious diseases and the profile of
	resistance to antimicrobials of different pathogens (bacteria, viruses,
	fungi, parasites) responsible.
	 Recognizing the causes of acquired immunosuppression as a
	prognostic factor in the evolution of infectious diseases with
	odontogenic impact.
	Assimilation of specialized medical language.
	 Exercising the capacity of synthesis and bibliographic
	documentation of students.
	At the end of the course the students will be able:
	 to understand the interrelation between risk factors, environmental
	and host factors involved in infectious and chronic diseases
	occurrence;
	 to identify the infectious risk, the basic knowledge applicable in the
	- to recently the infectious risk, the basic knowledge applicable in the

epidemiology of infectious diseases and to integrate their particularities in dentistry;
• to apply the principles of immunoprophylaxis in the healthcare of
healthy people and in groups at risk for the acquisition or transmission
of infectious diseases;
• to consider the judicious use of chemoprophylaxis in exogenous and endogenous infections;
• to integrate the post exposure prophylaxis in case of occupational exposure to infectious agents transmissible through blood and other biological fluids;
• to understand and apply the preventive measures in dental settings during SARS-CoV-2 pandemic.

	LECTURES
Teaching methods	Lecture, interactive presentations - On site and online exposures based on PPT presentations and clinical cases
Content	_
	analysis and evaluation. The aims and objectives of the epidemiological surveillance, the fundamental component

	in building health	n policies.	
	10.	10. Definition of commensal, pathogenic	and
	Epidemiologica	opportunistic microorganisms with differ	
	l analysis -	in the preventive and therapeutic interven	
	principles,	F F	
	design and		
	planning		
	epidemiologica		
	1 studies.		
	Types of errors		
	and their		
	control in		
	epidemiologica		
	l research.		
		response to infection - the significance	
		otective barriers, the innate and adaptive	
		ious disease classification according to	
		nission and in relation with the	
		ontrol approach. COVID-19 pandemic –	
		evention and control in the communities	
	and health service		
		eria in the epidemiology of infectious	
	and chronic disea		
	1	orrelation between the quality of strength of recommendations in medical	
	1	-	
	_	epidemiology - the normal / abnormal	
		sis, prognosis, natural history and	
	treatment	come marrantian by combining the	
		ary prevention by combining the gy with the high individual risk strategy.	
	Secondary preven		
		y Health Care (PHC), a universal th and well-being of communities. PHC	
		principles in the 21st Century -	
	Millennium Deve	- ·	
		of healthcare-associated infections, the	
	1	ation and economic significance. Types	
		ociated infections, the risks and specific	
	components in de		
		AL ACTIVITIES	
Teaching		ntations - On site and online exposures	
methods		esentations and clinical cases	
Practical		tations - On site and online exposures	
activity	-	sentations and clinical cases	
carried out	_	it will be presented aspects related to:	
by students		enesis, clinical picture, clinical forms of	
J		,	i

disease, complications, prognosis, treatment, and prophylaxis. Identifying the standard and transmission based precautions in different scenarios. Identifying the specific risks and preventive measures to be applied in dental settings. Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
Identifying the standard and transmission based precautions in different scenarios. Identifying the specific risks and preventive measures to be applied in dental settings. Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
precautions in different scenarios. Identifying the specific risks and preventive measures to be applied in dental settings. Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
Identifying the specific risks and preventive measures to be applied in dental settings. Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
be applied in dental settings. Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
Exercise the basic statistics and specific indicators in dentistry. Content 1. Individual and collective prophylaxis measures
dentistry. Content 1. Individual and collective prophylaxis measures
Content 1. Individual and collective prophylaxis measures
1 1 7
0.7
2. Impact of Covid-19 pandemic on dental medicine.
3. Positive diagnosis in infectious diseases based on
epidemiological, clinical and laboratory criteria
4. Antibiotics treatment and prophylaxis in dental
medicine
5. Infections of oral cavity: odontogenic and non-
odontogenic infections (acute pharyngitis, stomatitis,
infections of salivary glands). Infectious endocarditis –
case presentations
6. Clinical manifestations of infectious diseases on
cephalic extremity (scarlet fever, diphtheria, infectious
mononucleosis, varicella, measles, rubella, tetanus,
botulism) – case presentations
7. Acute viral hepatitis. Management of professional
exposure to blood and bodily fluids. HIV infection – case
presentations 8 Defining the preventive and competive entionidamic
8. Defining the preventive and combative antiepidemic
activities. Case studies. Passive and active immunization.
Principles, objectives and recommendations.
Passive immunization – indications, administration and
adverse events – case study.
9. The recommended vaccines in the National
Immunization Schedule. Types of vaccines, efficacy and
safety, vaccination strategy, adherence to vaccination.
COVID-19 vaccination - types of vaccines, efficacy and
safety, vaccination strategy, adherence to vaccination.
Vaccine coverage and healthcare workers vaccination.
10. Vaccine contraindications and adverse events
following immunization.Chemoprophylaxis -
recommendations in exogenous infections and prevention
of infective endocarditis in the dental setting.
11. Standard precautions – components, hand hygiene,
the personal protective equipment (PPE). Transmission
based precautions (additional) – airborne, droplets and
contact precautions and protective environment isolation.
Personal protective equipment in dentistry during SARS-
CoV-2 pandemic.

- 12. The attitude in case of occupational exposure to blood and other potentially infectious body fluids hepatitis B, C viruses and HIV. Definition and calculation of the most important epidemiological indicators incidence, prevalence and relative risk. Specific indicators in dentistry DMFT.
- 13. The epidemiology of viral hepatitis type B and C prevention and control. The epidemiology of HIV infection the trends, prevention and control. Ending AIDS by 2030.
- 14. The dental setting, biological risks and dental instrument classification. Disinfection, sterilization and cleaning in the dental setting. Basic knowledge upon hazardous waste management. Case studies healthcare associated infections in dentistry.

Bibliograph y

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- 2. Toronto Notes (Essential Med Notes), 35th Edition, 2018
- 3. Lecture notes
- 4. ECDC, CDC, CNSCBT
- 5. Bonita R, Beaglehole R, Kjellström T. Basic epidemiology. 2nd edition World Health Organization 2006. whqlibdoc.who.int/publications/2006/9241547073_e ng.pdf.
- Mandel G.L, Bennett J.E, Dolin R. Principles and Practice of Infectious Disease 8th Edition, Churchill Livingstone, London, New York, 2015. ISBN-10: 1455748013
- Aschengrau A, Seage G. Essentials of Epidemiology in Public Health. 3rd Ed. Jones & Bartlett Learning. 2014. ISBN 9781284028911.
- Merrill R. Introduction to Epidemiology 6th Ed. Ed. Jones & Bartlett Learning. 2013. ISBN 9781449665487.
- 9. Hebel JR, McCarter R. Study guide to Epidemiology and Biostatistics 7th Ed. Ed. Jones & Bartlett Learning. 2012. ISBN 9781449604752.
- 10. Fletcher RH, Fletcher SW. Clinical Epidemiology the Essentials 4th Ed., Lippincott Williams &Wilkins, 2012, 9781451144475.
- 11. Nelson KE, Williams C. Infectious Disease Epidemiology Theory and Practice 3rd Ed. Ed. Jones & Bartlett Learning. 2014. ISBN 9781449683795.
- 12. Rothman K.J., Greenland S, Lash TL. "Modern Epidemiology" 3rd ed. Lippincot Williams &

- Wilkins, Philadelphia 2012, ISBN-13: 978-1451190052.
- 13. Plotkin SA, Orenstein WA, Offit PA, Edwards KM. Plotkin's Vaccines. 7th ed., Elsevier 2018. ISBN: 978-0-323-35761-6.
- 14. European Centre for Disease Prevention and Control. ECDC Available at: https://www.ecdc.europa.eu/en/home.
- 15. Centrul National de Supraveghere si Control al Bolilor Transmisibile (*CNCSBT*) Available at: https://cnscbt.ro/.
- 16. Centers for Disease Control and Prevention. Summary of Infection Prevention Practices in Dental Settings: Basic Expectations for Safe Care. Centers for Disease Control and Prevention, US Dept of Health and Human Services; 2016. https://www.cdc.gov/oralhealth/infectioncontrol/pdf/s afe-care2.pdf.
- 17. ORDIN Nr. 1101/2016 privind aprobarea Normelor de supraveghere, prevenire și limitare a infecțiilor asociate asistenței medicale în unitățile sanitare.
- 18. ORDIN nr. 961/2016 pentru aprobarea Normelor tehnice privind curățarea, dezinfecția și sterilizarea în unitățile sanitare publice și private, tehnicii de lucru și interpretare pentru testele de evaluare a eficienței procedurii de curățenie și dezinfecție, procedurilor recomandate pentru dezinfecția mâinilor, în funcție de nivelul de risc, metodelor de aplicare a dezinfectantelor chimice în funcție de suportul care urmează să fie tratat și a metodelor de evaluare a derulării și eficienței procesului de sterilizare.
- 19. Ordinul nr. 828/2020 privind măsurile de organizare și desfășurare a activității la nivelul cabinetelor stomatologice, la nivelul unităților sanitare non-COVID și al ambulatoriilor de specialitate pe perioada stării de alertă.
- 20. ECDC COVID-19 pandemic. https://www.ecdc.europa.eu/en/covid-19-pandemic.
- 21. WHO Coronavirus disease (COVID-19) pandemic. https://www.who.int/emergencies/diseases/novel-coronavirus-2019.

Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	90%	%	10%

Institution for graduate and				Univer	sity of Me	edicine a	nd Pharm	acy "Iuliu	Haţieganu"
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine	:			
Domain of study				Health					
Acade	mic de	gree		Dental Medicine in English					
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			1 Maxi	llo-Facial	Surgery	and Rad	iology	
Discipline				Oral and Cranio-MaxilloFacial Surgery					
Cours title				ORAL AND MAXILLO-FACIAL SURGERY					
Responsible for lecture			re	Associa	ate Prof.	dr. Rota	ır Horați	u	
Respo	nsible	for pract	ical	Assist.	Ciurea M	lircea			
activit	y								
The fo	rmativ	ve catego	ry of	DS					
the dis	scipline	e							
Compulsory discipline			e	Compulsory					
**	G	hours	/week	ho	hours/semester			G 11.	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	2	3	28	42	55	125	5	Е

Pre-conditions (Preliminary conditions)	Knowledge of the anatomy of the head and neck, physiology, pathology, physiopathology as well as anesthesia in Dentistry Ability to analyze clinical anatomical parameters in the clinical case study. Critical analysis and interpretation of laboratory analyzes Writing of correct therapeutic prescriptions. Ability to perform local and locoregional anesthesia in the maxillofacial region.	
Requisities for	Amphitheater with projection system (projector)	
lectures and practical activities	Dental offices with dental chairs, salons, intervention rooms	

Professional competences	Acquire notions of theory and practice specific exam for the specialty Acquire basic knowledge of oral (alwester) surgery.			
competences	Acquire basic knowledge of oral (alveolar) surgery			
Transversal	Use the concepts learned in new contexts			
competences	The application of theoretical concepts in practical work			
	Establish interdisciplinary correlations in the fields studied			
	The ability to communicate effectively with the patient			
	Deepen the concern for professional development through training			
	and analytical and synthetic thinking			
	Demonstrate participation in research activities such as participation			
	in scientific research			

General objectives	 The course offers students of 4th year Dentistry of the Faculty of Dentistry, fundamental concepts of oral surgery, which is the theoretical and practical basis of other surgical disciplines specialized in the training of the dentist. The practical work aims to acquire basic knowledge of the surgical anatomy of the head and neck, focusing on the dento-maxillary device and the acquisition of the skills necessary in the practice of oral surgery procedures.
Specific objectives	 Learning the fundamentals of oral surgery, focusing on: the principles of tooth extraction, endodontic surgery, the pathology of teething, periodontal and prosthetic surgery in terms of morpho-functioning. Learn to practice surgical techniques during oral surgery clinical placements.

	LECTURES					
Teaching	Lecture, systematic presentation, interactive lecture, patient					
methods	presentation of related case.					
Content	1. Introduction. Patient assessment. Management of co-morbidities.					
	Features of alveolar dental surgery					
	2. Management of co-morbidities. Features of alveolar dental surgery.					
	3. General principles of alveolar dental surgery. Instruments used in					
	alveolar dental surgery					
	4. Simple extraction of temporary and permanent teeth					
	5. Surgical tooth extraction					
	6. Surgical treatments helping endodontic treatments					
	7. Pro-prosthetic surgery					
	8. Pathology of dental eruption					
	9. Dental inclusion					
	10. Periodontal dental trauma.					
	11. Peri-osseous oro-maxillofacial infections					
	12. Oromaxillofacial infections of superficial lodges					
	13. Maxillary bone cysts.					
	14. Pathology of dental origin of the maxillary sinus.					
	PRACTICAL ACTIVITIES					
Teaching	Power-Point presentations, interactive teaching					
methods						
Practical	Practical work with the practical application of the knowledge acquired					
activity carried	in the courses; analysis of medical imaging photographs; interpret					
out by students	laboratory tests; discuss the perioperative attitude for patients with					
	associated diseases proposed for oromaxillofacial surgery; oral and					
	maxillofacial surgery treatments.					
Content	1. Give examples of the peculiarities of clinical examination and					
	laboratory investigations in patients with oral and maxillofacial diseases.					
	2. To illustrate the perioperative attitude for patients suffering from					
	associated diseases, proposed for oromaxillofacial surgery.					

- 3. Demonstration of tooth extraction using forceps and / or using the elevator. Assisted tooth extraction.
- 4. Demonstration of tooth extraction using forceps and / or using the elevator. Assisted tooth extraction.
- 5. Demonstration of tooth extraction by alveolotomy. Alveoloplastic tooth extraction. Assisted tooth extraction.
- 6. To establish the diagnosis and the surgical treatment helping endodontic therapeutic methods. Demonstration and participation in apical resection.
- 7. Exemplify the pathology of dental eruption. Establish the therapeutic indications.
- 8. Establish the therapeutic indications in the case of dental inclusions. Demonstration and participation in the extraction of wisdom teeth and / or upper canines.
- 9. Establish the therapeutic indications in the case of pro-prosthetic surgical interventions. Demonstration of pro-prosthetic surgery on soft tissues and bone support.
- 10. Establish the therapeutic indications in the case of periodontal dental trauma. Give examples and methods of treatment.
- 11. Establish the diagnosis and surgical therapeutic indications in the case of oro-maxillofacial infections. Demonstration and participation in the incision of the periosseous abscess. Demonstration and participation in post-operative care in patients with oromaxillofacial infections. Case presentation: periosseous suppuration.
- 12. Establish the diagnosis and surgical therapeutic indications in the case of oral, maxillofacial infections. Demonstration and participation in the incision of the abscess of the superficial lodges of the face and neck. Demonstration and participation in post-operative care in patients with oral, maxillofacial infections.

Case presentation: suppuration of the superficial lodges of the face and neck.

- 13. Establish the therapeutic indications for surgery in the case of maxillary bone cysts. Demonstration and participation in cystectomy. Case presentation: maxillary cyst development or inflammation
- 14. Establish the diagnosis and surgical therapeutic indications in the case of maxillary odontogenic sinusitis. Demonstration and participation in oral-antral communication plastic surgery. Case presentation: odontogenic maxillary sinusitis.

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	Blackwell; 2014.	· Mitchell DA			
	*	AN. An introduction to o	ral and maxillofacial		
		edition. Boca Raton: CRC Pr			
		, Ellis E, Tucker MR, editor			
		al surgery. Seventhedition.			
	2019.	in surgery. Beventiledition.	St. Louis. Lisevici,		
		AM.Manual de Chirurgie	Orala Anatomie		
		ici Chirurgicale –Ed. Medica			
	C	en JO, Andreasen FM, A			
		olor atlas of traumatic injur			
		Wiley-Blackwell; 2019.	ies to the teeth. Thin		
			maxillo-faciale et		
	8. Barthélémy I et al. Chirurgie maxillo-faciale et stomatologie: Réussir les ECNi. Elsevier Health Sciences, 2017				
	•				
	9. Fragiskos D. Fragiskos – Oral surgery, Springer, Berlin, 2011.				
	10. Bucur A: Compendiu de chirurgie oro-maxilo-faciala,				
	Quintessence, Bucuresti, 2009.				
		a C: Chirurgie orala si n	naxilofaciala. Editura		
	Medicala, Bucure	•	·· · · · · · · · · · · · · · · · · · ·		
		Chirurgie orala, Editura	Medicala, Bucuresti,		
	2010.				
	13. Guyot L, Seguin P, Benateau H: Techniques en chirurgie maxillo-				
	faciale et plastique de la face, Springer Verlag France, 2010.				
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	50%	40%	10%		
final grade:					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	2 Conservative Odontology		
Discipline	Odontology, Endodontics and Oral Pathology		
Cours title	ODONTOTHERAPY		
Responsible for lecture	Lecturer Dr. Radu Chisnoiu		
Responsible for practical Lecturer dr. Radu Chisnoiu			
activity	Asist. Dr. Dan Pop		
	Asist. Dr. Lucia Timiș - Dumitrașcu		
Asist. Dr. Mara Rusnac			
The formative category of	DS		
the discipline			
Compulsory discipline	Compulsory		

			/week	hours/semester			T 1 0 11	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	2	3	28	42	80	150	6	Е

Pre-conditions Simple dental caries diagnosis notions, dental treatment	
(Preliminary conditions) methods and endodontic treatment steps knowledge	
Requisities for lectures	Lecture hall with projection system. Dental offices with dental
and practical activities	units needed for practical activities on patients

Professional	The capacity to use correctly the theoretical and practical cariology		
competences	notions on models and phantoms		
	Knowing the examination instruments and the instruments used for		
	different cavities preparation		
	Knowing and choosing the dental treatment options for direct		
	restoration methods, depending on clinical situation		
	• Learning the dental restoration notions by different methods, depending		
	on the used materials and their practical appliance on patients		
	Developing synthesis capacity of aesthetic and functional dental		
	restoration notions in order to understand and restore the principal		
	functions of the dento-maxillary apparatus: mastication, deglutition,		
	phonation, physiognomic function		
	Improving the theoretical knowledge of cavity preparation and		
	obturation skills		
	Acquiring the practical experience needed to use the specialized		
	instruments to achieve the coronary restoration stages using different		
	materials		
Transversal	• The use of assimilated notions in particular contexts, specific to each		
competences	case		
•	Applying theoretical notions in practical activities		
	• Establishing interdisciplinary correlations regarding the complex patient		
	treatment		
General	Improvement of knowledge about etiology, clinical forms of dental		
objectives	caries, positive and differential diagnosis, the treatment of simple dental		
	caries and their application to patient practice		
Specific	Patient examination, diagnosis decision and treatment plan		
objectives	Filling in the patient's record with data obtained during the dental		
objectives	examination in order to establish a positive diagnosis and a suitable		
	therapeutic plan.		
	Assimilation of differential diagnosis notions and the conditions in		
	which it is achieved.		
	Applying the theoretical notions of dentinal wound treatment and		
	methods of restoration for restoring damaged dental tissues and ADM		
	functions.		
	 Practical application of the preparation steps for cavities in order to be 		
	• 1 factical application of the preparation steps for cavities in order to be		

T
restored with non-aesthetic materials.
• Practical application of the preparation steps for cavities in order to be restored with aesthetic materials.
Developing the ability to replicate the theoretical knowledge by
preparing the cavities and filling them depending on each clinical
situation
Exercise of synthesis and bibliographic documentation

	LECTURES					
Teaching	Lecture, systematic, interactive exposure					
methods						
Content	1. Infection control in the dental office					
	2. Complete patient examination. Anamnesis, Objective extra-oral					
	clinical examination.					
	3. Complete patient examination. Complex intra-oral examination: oral					
	mucosa, dental arches, periodontal, complementary examinations in					
	order to establish a complete and correct diagnosis.					
	4. Dental caries etiopathogenesis. Favorable conditions (enamel quality					
	and buccal fluid) and diet.					
	5. The importance of biofilm presence and bacterial flora in the					
	etiopathogenesis of dental caries. Time factor.					
	6. Anatomo-clinical forms of dental caries; enamel, dentinal and					
	cementum caries.					
	7. Dental hyperesthesia and hypersensitivity: definition, etiology,					
	positive and differential diagnosis, treatment.					
	8. Cervical lesions of non-carious etiology: positive and differential					
	diagnosis.					
	9. Restoring cervical lesions by direct methods, using modern filling					
	materials, their properties and indications					
	10. Actual and modern methods for composite obturations. Anterior					
	restorations.					
	11. Aesthetic posterior restorations using direct and indirect techniques.					
	12. Coronal restorations in case of extensive carious lesions.					
	13. Modern tendencies in direct pulp capping- calcium hydroxide or					
	dentinal adhesives?					
	14. Case presentation.					
	PRACTICAL ACTIVITIES					
Teaching	Interactive discussions and demonstrations					
methods						
Practical	Exercises for instruments recognition and description.					
activity carried	Realizing the preparations procedures for instrument sterilization.					
out by students	Patient examination and data record					
	Treatments on patients.					
Content	1. Dental office presentation, dental unit functions.					
	2. Dental office circuit for instruments; cleaning and sterilization					

	methods for dental ins	truments. Working surfa	ces disinfection.		
	3. Patient examination	in the dental office, filli	ng the patients record.		
	4. Proper isolation ach	nievement –rubber dam a	pplication		
	5. Dentinal wound treatment and application of filling materials in				
	cavities: varnishes, bases, liners.				
	6. Preparation and app	olication of filling materi	als in cavities. Pulp		
	capping.				
	7. Complex restoration				
		torations using modern r			
		ration of cavities and app	olication of light curing		
	composite materials.				
		auration using light curit			
	11. Posterior teeth restauration using light curing composite materials.				
	12. Procedures on patients				
	13. Procedures on patients				
	14. Practical exam- examination+ interview				
Bibliography	1. Summitt J.; Robbins W.; Schwartz R.: Fundamentals of operative				
	Dentistry; Ed. Qu				
		Ghid practic de odontolo	ogie și endodonție;		
	Ed.UMF Cluj-Na		4		
		ı (coordinator): Manual j	,		
	stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021				
	4. Monica AZEVEDO: Cariology: The Most Important Concepts,				
Evaluation:	Kdp Print Us, 2019 Written exam Practical exam Activity during the				
Evaluation.	Wilten Cam	i i acticai caalii	semester:		
Percent of the final grade:	70%	20%	10%		

T	TY 1 CAR II 1 AND HY II TO I
Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	2 Conservative Odontology
Discipline	Pedodontics
Cours title	PEDODONTICS
Responsible for lecture	Lecturer Dr. Meda-Romana Simu
Responsible for practical	Lecturer Dr. Meda-Romana Simu
activity	Assist. Drd. Irina Lupse
	Assist. Drd. Lavinia Voina
	Assist. Dr. Raluca Ghiran
The formative category of	DS

the di	scipline	2							
Comp	ulsory	disciplin	e	Compu	lsory				
		hours/week	hours/semester		m . 1	~ "	Type of		
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
4	1	2	3	28	42	55	125	5	Е

Pre-conditions (Preliminary	Knowledge of the anatomy and physiology of dento-
conditions)	maxillary system
Requisities for lectures and	Amphitheater with projection system.Offices with
practical activities	dental units.

Professional	Knowledge of the development of the dento-maxillary system during							
competences	childhood							
	Particularities of clinical and complementary examination in pediatric dental medicine							
	Behavioral particularities of the child and adolescent patient							
	 Normal and pathological development of the dento-maxillary apparatus Dynamics of dental eruption 							
	Specific dental pathology, with emphasis on the particularities of							
	carious lesions of temporary and young permanent teeth							
	Complications of carious lesions							
	Etiopathogenesis and prophylaxis of dental caries in children and young							
	people							
Transversal	Using similar concepts in new contexts							
competences	Application of theoretical concepts in practical activity							
•	Establish interdisciplinary correlations in the studied areas.							
General	Acquiring notions of normal and pathological development of the							
objectives	dento-maxillary system.							
	• Psychology and approach to the child in the dental office.							
	Particularities of diagnosis and treatment of dental lesions in children							
	and young people.							
Specific	Acquiring knowledge about the development of the dento-maxillary							
objectives	system during childhood							
	• Particularities of clinical and complementary examination in children							
	and adolescent							
	Techniques of communication and approach of the child and adolescent							
	patient							
	Normal and pathological development of the dento-maxillary apparatus							
	Dynamics of dental eruption							
	• Diagnosis and treatment of simple and complicated odor lesions of							
	temporary and permanent immature teeth							
	• Etiopathogenesis and prophylaxis of dental caries in children and							
	adolescent							

• Exercise of synthesis and bibliographic documentation

LECTURES								
Teaching	Lecture, systematic, interactive exposition, Oral exposure, Power							
methods	Point presentations							
Content	1. Introduction, notions of psychology necessary for collaboration with							
	the child patient.							
	2. Clinical examination of the patient in the pediatric dental office							
	3.Complementary examinations, factors that may influence the							
	development of the dento-maxillary system.							
	4. Functional examination, functions of the dento-maxillary system,							
	factors that can influence the development of dento-maxillary system.							
	5. The dental anomalies, dystrophies							
	6. Dental eruption. Accidents and eruption disorders.							
	7. Evolution of normal occlusion relationships							
	8. Morphological and structural particularities of temporary and							
	permanent teeth during growth period							
	9. Etiopathogenesis of dental caries in children; epidemiological data,							
	intensity index, frequency, caries rate.							
	10. Prophylaxis of dental caries during childhood and adolescence							
	11. Simple decay of temporary teeth							
	12.Complicated decay of temporary teeth							
	13. Simple decay of young permanent teeth.							
	14. Complicated decay of young permanent teeth							
	PRACTICAL ACTIVITIES							
Teaching	Practical demonstration, interactive dialogue							
methods								
Practical	Performing complex clinical examinations; Radiographies study models,							
activity carried	Follow the dental eruption process; Diagnosis of dental anomalies;							
out by students	Development of positive / differential diagnosis; Perform loco regional							
	anesthesia for children; Applying methods of dental caries prophylaxis according to dentition and dentition; Staging treatment according to							
	dentition							
Content	Complex clinical examination							
Content	Complex clinical examination Complex clinical examination							
	3. Complex clinical examination							
	4. Complex clinical examination							
	5. Complex clinical examination							
	6. Dental lesions of temporary teeth							
	7. Dental lesions of temporary teeth							
	8. Dental lesions of young permanent teeth							
	9. Dental lesions of young permanent teeth							
	10. Complementary examinations							
	11. Complementary examinations							
	12. Anesthesia in children and young people							

	13. Prophylaxis of too	th decay						
	14. Develop a treatment plan							
Bibliography	1. KOCH, G., POU	JLSEN, S., ESPELID	D, I., HAUBEK, D. (Eds.).					
	(2017). Pediatric	dentistry: a clinical ap	proach. John Wiley & Sons.					
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	Medicina Dentar	ra Pediatrica, Ed. M	edicala Universitara" Iuliu					
	Hatieganu", 2016	5, ISBN 978-973-693-7	724-8					
	3. ARTHUR NOV	WAK, JOHN R. (CHRISTENSEN. Pediatric					
	Dentistry:							
	4. Infancy through A	Adolescence, 6e Hardo	over 2018.					
	5. MCDONALD, A	•						
	10e Hardcover. 2015							
	6. AMR M. MOURSI Clinical Cases in Pediatric Dentistry. 2nd							
	Edition, 2020.							
	7. DECLAN T. MILLETT, PETER DAY. Clinical Problem Solving							
	in Dentistry: Orthodontics and Paediatric Dentistry. 2016.							
	8. M. MULLER-BOLLA. Guide d'odontologie pediatrique.2018							
Evaluation:	Written exam							
	semester:							
Percent of the	60 %	40%	30% from the practical					
final grade:			exam grade					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate s	Cluj-Napoca							
Faculty			Dental	Medicine				
Domain of stud	Health	Health						
Academic degr	ree		Dental Medicine in English					
Level of course	e		I and II- License and masters					
Qualification			Doctor	of Dental	Medicii	ne		
Department			4 Prost	hetics and	l Dental	materials		
Discipline			Prosthe	etic Dentis	stry			
Cours title	tle PROSTHETIC DENTISTRY							
Responsible fo	or lectu	re	Lect. Dr. Andreea Kui					
Responsible fo	or pract	ical	Lect. Dr. Andreea Kui					
activity			Lect. D	r. Oana <i>A</i>	Almasan			
			Lect. D	r. Cecilia	Bacali			
			Assist.	Dr. Manu	ıela Man	ziuc		
			Assist. Dr. Roxana Triștiu					
The formative	catego	ry of	DS					
the discipline								
Compulsory discipline			Compulsory					
hours/week		ho	urs/semes	ter	Type		Type of	
Year Sem	Sem C LP/S	LP/S	C	LP/S	SI	Total	Credits	Assessment
4 1	1	3	14	42	44	100	4	E

Pre-conditions	Elementary knowledge of teeth morphology, dental		
(Preliminary conditions)	materials, occlusion and single-tooth fixed prosthesis		
Requisities for lectures	Amphitheater with video projector. Dental offices with		
and practical activities	dental units and all the specific equipment and materials for		
	prosthodontic activity		

 Ability to adequately use the specialty terminology
• Knowledge regarding the etiology, complications and evolvement of partial edentulism
 Appling previous theoretical knowledge in order to correctly establish a complete diagnostic and a treatment plan for a particular case Knowledge regarding the indications and contra-indications of fixed partial dentures for partial edentulism Understanding the principles of treatment when manufacturing a fixed partial denture Developing the practical abilities when preparing one or several abutments for a fixed partial denture Understanding the technical processes for manufacturing a fixed partial denture Knowing and understanding the clinical steps in performing a fixed partial denture Knowing and understanding the impression methods used in fixed prosthodontics as well as the bite registration techniques Knowledge of the theoretical aspects on esthetic analysis of a case and of the methods used in prosthodontics for a complete esthetic rehabilitation
The use of assimilated information in new contexts
 Application of theoretical concepts in the practical activity
 Interdisciplinary correlations within the study domains
• Acquiring theoretical and practical notions in order to perform fixed
partial dentures to patients with partial edentulism
• Practicing the synthesis capacity that a future dentist should have by using also the references in this domain
 Acquiring the notions needed to establish a complete diagnosis and a complete treatment plan for a patient with partial edentulism, using a fixed partial denture Practical application of the principles used in establishing a treatment plan with a fixed partial denture. Understanding the interdisciplinary nature of a prosthetic treatment plan Establishing a complete treatment plan, depending on the type of edentulism Clinical study of different types of prosthetic restorations Attending during the practical activity to all the clinical steps required to perform a fixed partial denture, in correlation with acquiring practical

skills needed to execute all the clinical stages needed for a particular
case

	LECTURES							
Teaching	Interactive systematic lectures							
methods	·							
Content	1. Partial edentulism – definition, clinical aspects, etiology, symptoms							
	2. Complications of partial edentulism – local complications, regional							
	complications, systemic complications							
	3. Classification of partial edentulism							
	4. Examination of a patient with partial edentulism. Complete diagnosis.							
	5. Clinical aspects regarding abutments' preparation in case of a fixed							
	partial denture. Atypical preparations of the abutments. Establishing the							
	axis of insertion.							
	6. Provisional prosthetic restorations: functions, classification of the							
	provisional restorations, procedures in manufacturing a provisional							
	prosthetic restoration.							
	7. Functional and biological consideration in designing a fixed partial							
	denture.							
	8. Biological and prophylactic principles in designing a fixed partial							
	denture.							
	9. Theoretical aspects regarding fixed partial dentures: indications and							
	contra-indications of FPDP; FPDP's objectives; classification of fixed							
	partial dentures. Selection of the retainers for a fixed partial denture.							
	10. Selection of the pontic for a fixed partial denture. Selection of the							
	connectors for a fixed partial denture.							
	11. Selection of the abutments for a fixed partial dentures							
	12. Treatment planning in case of partial edentulism: objectives,							
	sequences of a treatment plan by either tooth supported or implant							
	supported prosthetic restorations.							
	13. Treatment configuration in partial edentulism – fixed partial denture							
	configuration and implant configuration as treatment possibilities in							
	different types of edentulous spaces – maxillary arch							
	14. Treatment configuration in partial edentulism – fixed partial denture configuration and implant configuration as treatment possibilities in							
	different types of edentulous spaces – mandibular arch							
	PRACTICAL ACTIVITIES							
Teaching	Interactive teaching activities							
methods	interactive teaching activities							
Practical	Analysis of study models							
activity carried	Performing clinical examinations / completing the examination form							
out by students	Simulating dental grinding - fixed metal-ceramic partial denture intra-							
	oral grinding and making temporary prostheses							
	Establishing the complete diagnosis in different clinical situations							
	Establishing the treatment plan							
Content	1. The components and the use of a dental unit; the use of dental							

instruments; presentation of the instruments used for exami	
	ningtion
	annation

- 2. Evaluation of the partial edentulism complications
- 3. Evaluation of the type of edentulism.
- 4. Clinical examination of an edentulous patient
- 5. The use of a dental survey to analyze a model with partial edentulism: abutments' analysis, establishing the path of insertion of a fixed partial denture; preparation of teeth for a fixed partial denture on simulator
- 6. Performing a provisional prosthetic restoration using a direct method or an indirect-direct method
- 7. Analyzing the models of a patient with a partial edentulism mounted in an articulator – occlusal plan analysis, considerations regarding the mastication rehabilitation
- 8. Case presentations evaluation of the functions affected by partial edentulism; evaluation of old prosthetic restorations
- 9. Model analysis establishing a complete diagnosis based on the data obtained
- 10. Establishing the sequences of a complete treatment plan
- 11. Complete diagnosis and treatment plan. Establishing the prosthetic treatment plan – abutments, retainers, pontic and connectors
- 12. Establishing the steps in performing the prosthetic treatment plan
- 13. Model analysis diagnosis and different prosthetic therapies in partial edentulism - maxillary arches
- 14. Model analysis diagnosis and different prosthetic therapies in partial edentulism - mandibular arches

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- 7. Sakaguchi RL, Ferracane JL, Powers JM. Craig's restorative dental materials. Fourteenth. Craig's Restorative Dental Materials. Elsevier Inc.; 2018. 1–340 p.
- 8. Warreth A, Ramadan M, Bajilan MR aa., Ibieyou N, El-Swiah J, Elemam RF ara. Fundamentals of occlusion and restorative

Evaluation:	10. Strassler HE. Fixed prosthodontics provisional materials: making the right selection.Compend Contin Educ Dent. 2013 Jan;34(1):22-26 Written exam Practical exam Activity during the semester:						
Evaluation:	the right selection.Compend Contin Educ Dent. 2013 Jan;34(1):22- 26 Written exam Practical exam Activity during the						
	9. Kui A, Picos A, Picos A, Ispas A. Fixed Partial Dental Prosthesis - Lecture notes. University of Medicine and Pharmacy "Iuliu Haţieganu"; 2018. 2018 p.):201–8.						

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Faculty			Dental Medicine						
Domain of study			Health	Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	llo-Facial	Surgery	and Rad	iology	
Discip	line			Dental Radiology					
Cours title				RADIOLOGY IN DENTAL MEDICINE					
Responsible for lecture			re	Lectur	er Dr. Ra	aluca Ro	man		
Responsible for practical			Lecture	er Dr Ralu	ica Rom	an			
activit	y								
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline		Compulsory							
	hours/week		/week	ho	urs/semes	ter	Tyr		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total Credi	Credits	Assessment
4	1	2	2	28	28	19	75	3	Е

Pre-conditions	Knowledge of the radiological anatomy of dental- periodontal and	
(Preliminary	maxillofacial structures.	
conditions)	Notions of radiological image and radiation physics,	
	radioprotection, radiobiology; notions of radiation protection	
	applied in the dental radiology office;	
	Knowledge of the principles and use of the radiological equipment	
	in the diagnosis of dental-periodontal and maxillofacial lesions, of	
	the use of the Roentgen intraoral equipments and of the	
	orthopantomography equipment;	
	Knowledge of the principles and how to perform the periapical	
	dental radiography, and also bitewing, occlusal,	
	orthopantomography techniques;	

	Detection, knowledge and correction of the possible errors in dento-maxillofacial radiology; Knowledge of the principles and the technique in CBCT Understanding the basic principles of image acquisition in computer tomography and magnetic resonance imaging passing the Dental Radiology exam - general notions from III rd					
	year Capacity to recognize the type of radiological examination and how					
	to perform them					
	Capacity to recognize dental and maxillofacial anatomical					
	structures on radiological images					
Requisities for	Amphitheatre with projector					
lectures and	Laboratories with specific equipment for practical activities in the					
practical activities	field of radiology interpretation					

Professional	The ability to use specialized terminology, properly and contextually
competences	Gaining experience in algorithms for indicating and interpreting the
	dental and maxillofacial pathology imaging examination
	Gaining knowledge of radiological semiology in different dental and
	maxillofacial pathological entities
	Ability to use specific radiological semiological imaging criteria in
	the differential analysis and to formulate the radiological diagnosis
Transversal	Using assimilated notions in new contexts
competences	The application of theoretical notions in practical activity
_	Personal professional development
	Establishing interdisciplinary correlations in the fields studied
General	
	Recognition the dental-alveolar pathology on radiological
objectives	examinations, learning the diagnostic algorithm using radiological and
	imaging examinations in dental and maxillofacial pathology, special
	imaging techniques in implantology and pathology of the maxillofacial
	area
Specific	Refreshing and consolidating the knowledge regarding the dental-
objectives	maxillofacial radiological anatomy
•	Acquiring knowledge on special imaging techniques in dental-
	maxillofacial pathology (CBCT, CT, MRI, Ultrasound of the head and
	neck)
	/
	Recognizing the semiology in dental and maxillofacial pathology on
	radiological examinations
	Knowledge of the diagnostic algorithm using radiological and imaging
	methods in dental- maxillofacial pathology
	The use of theoretical and practical knowledge in formulating the
	radio-imaging diagnosis in dental and maxillofacial pathology
	Use of the imaging techniques in implantology
	 Development of differential diagnoses based on the radiological
	aspects

	LECTURES				
Teaching	Lecture, systematic oral and visual Power-point, interactive				
methods	presentation				
Content	Radiological diagnosis of carious lesions				
	2. Radiological diagnosis pulp pathology. Radiologic examination in				
	endodontics				
	3. Radiological diagnosis of apical periodontitis and chronic periodontal				
	disease – pathology and examination protocols				
	4. Radiological diagnosis of dental anomalies				
	5. Radiological diagnosis in orthodontics – cephalometric radiography				
	6. Radiological diagnosis in oral implantology. Use of CBCT in implant				
	planning				
	7. European guide of recommendations regarding radiological				
	examination in oral and maxillofacial pathology				
	8. Special imaging techniques in dentomaxillofacial pathology: CT,				
	MRI, Ultrasound of the head and neck, guide of indicating the methods,				
	advantages and disadvantages				
	9. Radiological diagnosis in maxillofacial trauma				
	10. Plan of assessing maxillofacial bone lesions. Radiological diagnosis				
	in maxillofacial cystic lesions				
	11. Radiological diagnosis in maxillofacial solid tumors				
	12. Radiological diagnosis in salivary gland pathology				
	13. Radiological diagnosis in paranasal sinuses pathology				
	14. Radiological diagnosis in temporo-mandibular joint pathology				
	PRACTICAL ACTIVITIES				
Teaching	Systematic real-time demonstrations, conversation, problem solving				
methods	exercises and case studies, practical, active, independent				
	implementation				
Practical	Performing radiographic images interpretation: dental radiographies,				
activity carried	panoramic radiographies, skull radiographies. Use of CBCT imaging				
out by students	software with performing the necessary reconstructive maneuvers and				
	interpretation of detected semiological changes, application of				
Content	diagnostic algorithms, formulation of imaging diagnoses				
Content	1. Recognition of anatomy in conventional and special dento-maxillo-				
	facial examination				
	Radiological diagnosis of carious lesions Radiological diagnosis in pulp pathology and radiological				
	e4xamination in endodontics				
	4. Radiological diagnosis of periapical periodontitis and chronic				
	periodontal disease – pathology and examination protocols				
	5. Radiological diagnosis of dental anomalies				
	6. Radiological diagnosis in orthodontics –cephalometric radiography				
	7. Radiological diagnosis in oral implantology - CBCT viewer, implant				
	planning				
	Pranning				

	8. Exemplification of	f special imaging techniqu	es in dentomaxillofacial			
		Ultrasound of the head and				
	Guide of indicating th	ese examination in maxillo	ofacial pathology			
	9. Radiological diagno	osis in maxillofacial trauma	a			
	10. Radiological diagnosis in maxillofacial cystic tumors – differential					
	diagnosis algorithm					
		nosis in maxillofacial solid	tumors – differential			
	diagnosis algorithm					
		nosis in salivary gland path				
		nosis in paranasal sinuses p				
		nosis in temporo-mandibul	<u> </u>			
Bibliography	1. Whaites E. Essentials of Dental Radiography and Radiology.					
	Churchill Livingstone, 5th ed., 2013					
	2. White CS, Pharoah MJ. Oral radiology. Principles and interpretation.					
	Elsevier 2019					
	3. Fildan F, Hedeşiu M., Patologie dento-maxilo-facială, Editura					
	Medicală Universitară Iuliu Hațieganu Cluj-Napoca,2003					
	4. Hedeşiu M. Radiologie orală. Ghid practic de tehnică, anatomie și					
	semiologie radiologică. Editura medicală, București 2021					
Evaluation:	Written exam					
			semester:			
Percent of the	40%	50%	10%			
final grade:	40%	30%	10%			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	4 Prosthetics and Dental materials
Discipline	Dental Propedeutics and Esthetics
Cours title	CAD/CAM SYSTEMS
Responsible for lecture	Lecturer Dr. Varvara Adrian Mihai
Responsible for practical Assoc. Prof. Dr. Bogdan Culic	
activity	Lecturer Dr Varvara Adrian Mihai
	Lecturer Dr Grecu Alexndru Gratian
	Lecturer Dr Burde Alexandru Victor
	Assist. Dr. Varvara Elena Bianca
	Assist. Dr. Prodan Corina Mirela
	Assist. Dr. Boitor Amelia Anita
The formative category of	DS
the discipline	
Compulsory discipline	Compulsory

	~	hours	s/week	hours/semester		ter		G 11	Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	1	1	14	14	22	50	2	Е

Pre-conditions	Notions of Prosthodontics- indirect restorations manufactured by	
(Preliminary	digital technology; Innovative notions of dental medicine;	
conditions)	Computerized notions for the manufacturing of indirect restoration	
Requisities for	Amphitheater with multi-media system for projection	
lectures and	Simulation offices and laboratories with specific equipment for	
practical activities	practical activities	
	Optical impression of the prosthetic field	
	Design techniques - individual achievement	
	Milling of restorations	

	,
Professional	The ability to use the specialized terminology properly and contextually
competences	Knowledge of the particularities of CAD_ CAM systems in dental medicine
	Knowledge of the technological possibilities of CAD_CaM systems indications, limits
Transversal	Using assimilated notions in new contexts
competences	Application of theoretical notions in practical activity
	Establishing interdisciplinary correlations within the studied fields
General	Knowledge of CAD_CAM technology - office and laboratory
objectives	
Specific	Knowledge of general principles
objectives	Know the limits of use
	Knowledge of types of prosthetic restorations, types of preparations
	Learning of optical impression methods
	Acquiring design methods for different types of prosthetic restorations

	LECTURES			
Teaching methods	Lecture, systematic, interactive presentation			
Content	 CAD / CAM systems in Dental Medicine. Definition. Historic. Generalities. Types of CAD / CAM systems. In office systems. Presentation of the equipment, technological variants Intraoral scanning. Types of CAD / CAM systems. Laboratory systems. Types of preparations for prosthetic restorations inlay, onlay, crown. 			
	5. Optical impression. Definition, Characteristics, Performance. Image capture. = part I (intraoral) Optical impression. Definition, Characteristics, Performance. Image capture. = part II (model)			

	C G 1 1 / G 1 B 1 1 B 1 1 B 1 1 B 1 1 B 1 1 B 1 1 B 1 1 B 1 1 B 1						
	6. CAM / CAD Materials - Feldspar ceramic. Lithium Disilicate						
·	ceramic.						
	7. CAM / CAD Materials - Hybrid Ceramics. Zirconium oxide						
	8. Software for design. Design of restorations for Inlay / Onlay / Crowns						
	/ Bridges						
	9. Indications, Choosing the type of restoration according to the clinical						
	indication						
	Choosing ceramic materials for CAD / CAM technique						
	The thickness of the ceramic. Milling work						
	10. Sintering / Crystallization. Types of ovens. Glazing						
	11. Lutting of all ceramic works Zr cementation, Feldspar ceramic						
	cementation, Emax. Adhesion - tooth (types of adhesives) Preparation						
	of ceramics - Types of cement						
	12. CAD_CAM systems for the laboratory. Applications of 3D printing						
	in dental medicine						
	13. Milling systems - in the laboratory						
	14. Surgical guides using CAD / CAM technology. Intervention						
	planning.						
	PRACTICAL ACTIVITIES						
Teaching	Practical demonstrations, interactive exercises						
methods							
Practical	Demonstrations regarding the use of instrumental systems for the						
activity carried	analysis of dental color						
out by students							
Content	1. General features of CAD-CAM systems - Presentation of systems at						
	the discipline level						
	2. Exercises for using the systems						
	3. Optical impression - intraoral system of offices						
	4. Impression of maxillary prosthetic field + mandible + occlusion -						
	mounting in the virtual articulator						
	5. Optical impression - laboratory scanner						
	6. Impression of maxillary prosthetic field + mandible + occlusion -						
	mounting in the virtual articulator						
	7. Design generation - inlay/onlay _ CAD component						
	8. Use of the design software for inlay/onlay						
	9. Design generation - crown/ bridge _ CAD component						
	10. Use of the design software for crown/ bridge						
	11. Milling techniques for prosthetic restorations - CAM component						
	12. Milling of restorations from different CAD-CAM materials						
	13. Pigmentation and glazing of prosthetic restorations						
	14. Glazing the milled restorations						
Bibliography	1. Fradeani M. Esthetic Analysis. A systematic Approach to						
	Prosthetic Treatment Quintessence, 2004						
	2. Chu S, Devigus A, Mieleszko A. Fundamentals of Color, Shade						
	matching and Communications in Esthetic Dentistry. Quintessence						

	Publishing Co, Inc, 2004. 3. Shillingburg HTJr. Fundamentals of fixed prosthodontics, 4rd ed., Quintessence Publishing Co Inc., 2012.				
Evaluation:	Written exam Practical exam Activity during the semester:				
Percent of the final grade:	50%	30%	20%		

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgr	aduate	studies		Cluj-Napoca					
Facult	t y			Dental	Dental Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Odonto	ology, End	lodontic	s and Ora	l Patholog	y
Cours	Cours title			ENDO	DODNT	ICS			
Respo	nsible	for lectu	re	Şef lucr.dr. Sanda Cîmpean					
Respo	Responsible for practical			Assist 1	Dr. Lucia	Timis			
activit	y			Assist l	Dr. Radu	Chsnoiu			
				Assist l	Assist Dr. Carina Culic				
				Assist Dr Merfea Mihai					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Comp	Compulsory discipline			Compu	lsory				
37	Year Sem	hours/week		hours/semester		G 11.	Type of		
Year		С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	2	4	28	56	55	125	5	Е

Pre-conditions	Knowledge of anatomy and histology of the teeth, dental pulp,
(Preliminary	alveolar bone and apical periodontium. Knowledge of Anatomical
conditions)	pathology. Knowledge of inflammatory disease of the dental pulp and
	its treatment.
Requisities for	Lecture halls with projecture systems and access to Microsoft Teams
lectures and	platform
practical	Dental office with specific equipments
activities	

Professional competences	 The ability to use the appropriate terminology Knowledge of morphology and physiology of the dental pulp and alveolar bone
	The ability to diagnose pulpal and periapical disease based on information gathered during subjective and objective examination

	Ţ
	Become trained in mechanised root canal instrumentation.
	Gather information about root canal disinfection
	Understanding the concepts of root canal obturation techniques
	Gather information about root resorption and corono-radicular
	traumatic injuries
	 Acquiring the necessary practical experience, in order to use the specialized tools in endodontic treatment.
Transversal	To use gained knowledge in new context
competences	To applying the theoretical concepts in practical work
	• To establishing interdisciplinary correlations within the studied
	domains
General	To gain knowledge of morphology, physiology and pathology of the
objectives	dental pulp and periradicular tissues
	To gain the ability to diagnose pulpal and periapical disease
Specific	To acquire knowledge of morpho-physiology and inflammation of
objectives	the apical periodontium, about root canal infections and root canal biofilm
	To have the ability to establish a correct diagnosis of periapical inflammatory diseases and pulp necrosis based on subjective and objective signs
	To learn and practice mechanized root canal endodontic treatment.
	To learn thermocompaction technique, used in root canal obturation
	To gather information about dental trauma, root resorption, dental cracks

	LECTURES						
Teaching	Lecture, oral displays, Power-Point presentation						
methods							
Content	1. Pulp necrosis and pulp gangrene. Endodontic biofilm. Subjective and						
	objective symptomatology, diagnosis and treatment plan.						
	2. Periapical disease: acute apical periodontitis. Subjective and						
	objective information, diagnosis and treatment plan.						
	3. Periapical disease: chronic apical periodontitis. Subjective and						
	objective information, diagnosis and treatment plan.						
	4. Diagnosis in Endodontic, treatment plan and prognosis5. Root canal disinfection. Phisical and chemical means of disinfection.6. Mechanized instrumentation: principles, guidelines, classification of						
	existing systems,. 2Shape system: description, guidelines						
	7. ProTaper, ProTaper Gold, ProTaper Next System: description,						
	guidelines, clinical case presentation						
	8. Root canal obturation using McSpaden thermo-compaction technique,						
	and Combined technique: description, guidelines						
	9. Endodontic retreatment: indications, contraindications, principles of						
	treatment						
	10. Cracked tooth syndrome: subjective and objective information,						

	diagnosis and traatmos	nt nlan					
	diagnosis and treatmen		a and ahiaatiya				
		tiopathogenesis, subjectiv	e and objective				
		nosis and treatment plan	1 -1.1				
		opathogenesis, subjective	and objective				
		nosis and treatment plan					
	_	y: indications, contraindic	cations, instruments,				
	techniques						
		n of endodontically treate	d teeth				
		CAL ACTIVITIES					
Teaching		s about endodontic topics	•				
methods		oal and periapical disease.					
		and obturation technique	es, accidents and				
	complications that ma						
Practical		periapical disease based o	n information gathered				
activity carried		objective examination					
out by students	Perform endodontic t	treatments on pacients					
Content	1. Consultation, X-ray	examination, diagnosis a	nd treatment plan				
	2. Anesthesia, access of	cavity, preendodontic rest	oration				
	3. Root canal preparat	ion and irrigation. Intraca	nal medication				
	4. Root canal obturation	on using cold lateral cond	ensation technique				
	5. Coronadicular resto	ration of endodontically	treated teeth				
		examination, dignosis an					
	acute apical periodontitis						
	7. Emergency treatment for acute apical periodontitis (endodontic						
	drainage)						
	8. Preendodontic restoration						
		nal instrumentation using	2 Shape system Root				
		anal medication with calc					
		anal dressing. Root canal					
	mechanical condensat		obtained using thermo				
		oration of endodontically	treated teeth using fiber				
	posts	oration of endodomicarry	treated teeth using fiber				
		internal and external reso	orntions				
	13. Treatment plan for		orphons				
	14. Assessment of end						
Bibliography		Ghid practic de Odontolo	ogia si Endodontia				
Pinnography		Universitara "Iuliu Hatie					
	2. Stephen Cohen, Feditura Mosby El	Kenneth M.Hargreaves – l	aniways of the rulp,				
			ci II aditura II Tridanta				
Evaluation:	3. Arnaldo Castelluo Written exam	cci – Endodontics – vol I Practical exam					
Evaluation:	vv rittell exalli	r racucai exam	Activity during the semester:				
Domoon4 of 4h -	60.0/	20.0/					
Percent of the	60 %	30 %	10 %				
final grade:							

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	line			MaxilloFacial Surgery and Implantology					
Cours	title			ENDOCRINOLOGY					
Responsible for lecture			Prof. Dr. Cristina Ghervan						
Responsible for practical			Vacan	cy positio	n Assist	. Prof. po	s. 41		
activit	y								
The fo	rmativ	ve catego	ry of	DD					
the dis	scipline	e							
Compulsory discipline			Compulsory						
**	Year Sem	hours/week		ho	urs/semes	ter	Typ		Type of
Year		Sem	С	LP/S	C	LP/S	SI	Total Credits	Assessment
4	2	1	1	14	14	22	50	2	Е

Pre-conditions	Accomplishment of the years I-III of study
(Preliminary	The ability to perform anamnesis and clinical exam in a patient.
conditions)	
Requisities for	Amphitheatre with projection system
lectures and	Spaces with facilities specific to practical activities.
practical	Patient rooms of the Endocrinology department.
activities	The students will wear protection equipment and will have stethoscope
	and clinical stage note-book

Professional	• Acquisition of theoretical notions and practical skills about the diagnosis,				
competences	treatment and follow-up of endocrine diseases. The ability to evaluate				
	the impact of endocrine diseases upon the oral and dental pathology.				
Transversal	• The ability to perform in a correct manner the anamnesis and the clinical				
competences	exam of a patient.				
	Using assimilated notions in new contexts				
	 Applying the theoretical notions in the practical activity 				
	 Establishing interdisciplinary correlations within the studied domains 				
	Ability to communicate effectively with the patient				
	Demonstration of the preoccupation for professional development				
	through the training of the analytical and synthetic thinking skills				
	• Demonstrate involvement in research activities, such as the development				
	of scientific articles				

General objectives	• The course offers to the students of the fourth year of the Dental Faculty the basic notions of endocrinology, the ability to establish the diagnosis of an endocrine disorder and to evaluate the impact of glandular dysfunction upon oral and dento-alveolar pathology.
Specific objectives	 Theoretic knowledge of endocrine pathology. Abilities concerning the anamnesis and clinical exam in endocrine patient. Demanding and interpreting hormonal dosages in a patient. Understanding the treatment of endocrine diseases, the follow-up and the impact of hormonal dysfunction upon oral and dental pathology.

LECTURES					
Teaching	Oral lecture, Power-Point presentations				
methods	•				
Content	1. General introduction to Endocrinology, The hypothalamus-pituitary				
	system				
	2. Hypothalamic-pituitary syndromes, Precocious puberty, Diabetes				
	insipidus				
	3. The pituitary tumoral syndrome, Acromegaly				
	4. Prolactinoma, Pituitary insufficiency				
	5. The thyroid gland, Iodine deficiency,				
	6. Hyperthyroidism				
	7. Hypothyroidism and				
	8. Thyroiditis				
	9. The parathyroid glands, Hyperparathyroidism,				
	Hypoparathyroidism,				
	10. Osteoporosis.				
	11. Adrenal glands, Cusing's syndrome,				
	12. Addison's disease				
	13. The gonads, Normal sexual differentiation				
	14. Ovarian failure, Testicular failure				
	PRACTICAL ACTIVITIES				
Teaching	Power-point presentations,				
methods	Clinical cases demonstration				
Practical	Practical application of knowledge gained during the courses; Study on				
activity carried	hormonal dosages, clinical imaging investigations, exemplification of				
out by students	pathology with clinical cases				
Content	1. Endocrine semiology: particular aspects of anamnesis in				
	endocrinology				
	2. Particular aspects of clinical exam in endocrinology.				
	3. Pituitary tumoral syndrome: elements of anamnesis and clinical exam.				
	4. Elements of hormonal and imaging diagnosis. Therapeutic solutions				
	and follow-up. Interactions with oral pathology				
	5. Thyroid pathology - elements of anamnesis and clinical exam.				
	6. Elements of hormonal and imaging diagnosis. Therapeutic solutions				

Evaluation: Percent of the	Written exam	Practical exam	Activity during the semester:		
	2. Endocrinologia Clinică în Medicina Dentară, Carmen Georgescu, Ed Med Univ "Iuliu Hațieganu" Cluj-Napoca, 2009 (Biblioteca UMF)				
Bibliography	1. Cristina Ghervan "HAND-OUT FOR ENGLISH STUDENTS - ENDOCRINOLOGY" Editura Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, 2002 (Biblioteca UMF)				
	13. Synthesis session, clinical cases evaluation and discussions.14. Synthesis session, clinical cases evaluation and discussions.				
	12. Elements of hormonal and imaging diagnosis. Therapeutic solutions and follow-up. Interactions with oral pathology.				
	exam.				
	and follow-up. Interactions with oral pathology 11. Ovarian and testicular failure - elements of anamnesis and clinical				
	10. Elements of hormonal and imaging diagnosis. Therapeutic solutions				
	9. Adrenal glands pathology - elements of anamnesis and clinical exam.				
	8. Elements of hormonal and imaging diagnosis. Therapeutic solutions and follow-up. Interactions with oral pathology				
	7. Parathyroid glands pathology and osteoporosis - elements of anamnesis and clinical exam.				
	and follow-up. Interac				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	10 Neurosciences		
Discipline	Neurology and pediatric neurology. Psychiatry and		
	pediatric psychiatry		
Cours title	NEUROLOGY. PSYCHIATRY		
Cours title	NECROLOGI: ISICIIAIRI		
Responsible for lecture	Lecturer Dr. Stan Adina Dora		
	Lecturer Dr. Stan Adina Dora		
Responsible for lecture	Lecturer Dr. Stan Adina Dora Assist. Crecan-Suciu Bianca		
Responsible for lecture Responsible for practical	Lecturer Dr. Stan Adina Dora Assist. Crecan-Suciu Bianca Lecturer Dr. Stan Adina Dora		
Responsible for lecture Responsible for practical	Lecturer Dr. Stan Adina Dora Assist. Crecan-Suciu Bianca Lecturer Dr. Stan Adina Dora Lecturer Dr. Căpățină Octavia, Assits. Paval Denis,		
Responsible for lecture Responsible for practical activity	Lecturer Dr. Stan Adina Dora Assist. Crecan-Suciu Bianca Lecturer Dr. Stan Adina Dora Lecturer Dr. Căpățină Octavia, Assits. Paval Denis, Assist. Lavinia Ionescu		
Responsible for lecture Responsible for practical activity The formative category of	Lecturer Dr. Stan Adina Dora Assist. Crecan-Suciu Bianca Lecturer Dr. Stan Adina Dora Lecturer Dr. Căpățină Octavia, Assits. Paval Denis, Assist. Lavinia Ionescu		

		С	LP/S	С	LP/S	SI			Assessment
4	2	1	1	14	14	22	50	2	E

D 124*	A 4
Pre-conditions	Anatomy, morphopathology, physiology and pathophysiology of
(Preliminary	the central and peripheral nervous system, notions of clinical
conditions)	semiology, notions of general pharmacology
	Neuroanatomy, neurophysiology, medical psychology, neurology,
	clinical pharmacology
	Medical history, physical examination, neurological examination,
	competencies in communicating the outcome of an assessment,
	competencies in addressing psychological/psychiatric matters in a
	multidisciplinary team
Requisities for	Punctuality
lectures and	Food consumption and use of the mobile phone are prohibited
practical activities	during the coursePunctuality
practical activities	Trainee notebook
	Equipment (white gown)
	Food consumption and use of the mobile phone are prohibited
	during the clinical practice
	Each student must complete his or her individual portfolio and
	abilities with specific information
	Neuroanatomy, neurophysiology, medical psychology, neurology,
	clinical pharmacology
	Medical history, physical examination, neurological examination,
	competencies in communicating the outcome of an assessment,
	competencies in addressing psychological/psychiatric matters in a
	multidisciplinary team
	Students will attend both courses and clinical activities with their
	mobile devices closed/on airplane mode. Telephone calls during the
	course will not be tolerated, nor will students leave the classroom to
	take their personal phone calls.
	Food and drink consumption are not recommended in course time.
	It is highly recommended for students to be on time. Each student
	must complete their individual portfolio and their practical skills
	handbook according to their specific requirements; For the late
	submission of various assigned papers/tasks, an evaluation of the
	clinical activities will be done, and the grading will be done
	accordingly.
	While performing clinical activities, students will respect the
	confidentiality of patients; they will communicate with respect and
	empathy with patients and their caregivers.
	During the clinical activities, personal conversations over electronic
	devices, the recording / filming patients as well as other attitudes
	considered to be inappropriate to the academic environment will
	not be tolerated.

Professional To critically analyze and be able to refer patients with neurological competences disorders to specialist to be able to correctly interpret the results of a clinical trial monitor the treatment prescribed in terms of effectiveness and adverse reactions be able to use sources of information on drugs effectively To be able to use the terminology appropriately and in context. To properly understand the concepts of normality/abnormality in accordance to the chronological age. Correct assessment of the main mental functions, their alterations and particularities according to age and pathology. Knowledge of the steps of psychiatric interview and of the mental state examination. Diagnostic and clinical evaluation skills in adult, child and third age patients for main mental disorders (from an etiopathogenetic perspective, nosography mapping according to current diagnostic criteria, clinical picture, evolution). Critical analysis and involvement in the case management for the main mental disorders. Establishment and maintenance of the therapeutic alliance. Critical analysis and interpretation of theoretical and practical contents of the discipline in an interdisciplinary approach with other medical/related specialties. Transversal • Skills of using the resources provided by specialized competences services/community for people with mental disorders. • Abilities to communicate effectively with patients regardless of their educational, social, cultural or financial status. • Critical thinking skills; use of concepts in new contexts and use of theoretical concepts in solving problems. • Multi-disciplinary/team-work skills. • Have the ability to communicate with the patient • Preoccupation for professional development by engaging critical thinking skills • Involvement in research activities, such as the development of scientific articles • The ability to use digital media for medical information General • acquiring practical skills to recognize the main neurological syndromes objectives • understanding how neurological patients are treated • acquiring the essential knowledge of the assessment and diagnosis of mental disorders and of the main approaches available (pharmacological and non-pharmacologic). At the end of the course, students will be able to understand and participate accordingly in the multidisciplinary team for the management of clinical diagnosis and the contingency plan for

the main mental disorders.

G •6•	
Specific	• the recognition of semiological features in neurological patients
objectives	• integration of clinical symptomatology in a syndrome
	 acquiring theoretical knowledge and direct clinical practice on 3
	successive stages:
	neurological semiology
	neurological syndromology
	neurological pathology
	• acquiring specific skill sets for the appropriate use of both theoretical
	and practical principles in psychiatry.
	• correct application of the clinical guidelines.
	• correct use of the diagnosis guidelines according to age groups.
	• concepts of prevention, early intervention and multi-modal intervention
	in the main mental disorders and their application in a multidisciplinary
	team, promoting the idea of teamwork and complementarity.
	• promote mental health and reduce the stigma of psychiatric patients

	LECTURES			
Tooching				
Teaching	Interactive exposition of the material, using power point presentations,			
methods	didactic movies.			
Content	1. Presentation of neurological symptomatology and its classification			
	2. Ischemic and hemorrhagic stroke: etiology, clinical picture, acute			
	phase treatment, immediate and delayed complications, primary			
	and secondary prophylaxis principles, prognosis			
	3. Parkinson's disease: etiology, clinical picture, motor and non-motor			
	complications, therapeutic principles			
	4. Multiple Sclerosis: Clinical forms, treatment and prognosis			
	5. Epilepsy: etiology, classification, clinical picture, therapeutic			
	principles			
	6. Headache syndromes: migraine, Cluster headache, tension			
	headache, primary and secondary trigeminal neuralgia (etiology,			
	clinical picture, treatment)			
	7. Coma: definition, etiology, evaluation (Glasgow Coma Scale)			
	8. General information about Psychiatry, mental disorders and links to			
	other related fields. Psychotropic treatment and their interactions. Safe			
	approach of a psychiatric patient.			
	9. Schizophrenia.			
	10. Mood disorders. Suicidal patient			
	11. Anxiety disorders. Eating disorders			
	12. Personality disorders and impulse control disorders.			
	13. Disorders of use, abuse, dependence on alcohol and other			
	psychoactive substances.			
	14. Mental retardation, Dementia. Psychomotor agitation.			
	PRACTICAL ACTIVITIES			
Teaching	Presentations of clinical cases, extensive explanations of the notions			
methods	already presented in the course			
L				

Practical	Applying the theoretic	eal knowledge in practice						
activity carried	Applying the theoretical knowledge in practice							
out by students								
Content	1 Presentation of the	activities of the departmen						
Content	· visit	activities of the departmen	11.					
		in nations avamination						
		in patient examination	a navealaciaal matiant					
		ction methodology with th						
	2. Specific measures for the recognition and assessment of urgencies in: Cerebral vascular pathology							
		for the recognition and ass	essment of urgencies in:					
	Parkinson's disease	· ·						
		for the recognition and ass	essment of urgencies in:					
	Multiple sclerosis							
	•	for the recognition and ass	essment of urgencies in:					
	Epilepsy 6 Specific measures	for the recognition and ass	assment of urganaics in:					
	Headache syndromes	for the recognition and ass	essment of urgencies in.					
		for the recognition and ass	essment of urgencies in:					
	Coma		8					
	8. Patient file. Aspects	s related to confidentiality	and conditions for					
	examining the patient.	-						
	9. Clinical case of sch	izophrenia.						
	10. Clinical cases of depression, suicidal imminence, hypomania, mania.							
	11. Clinical case of anxiety, eating disorders.							
	12. Clnical case of per	sonality disorders.						
	13. Clinical case of ald	coholism, abuse of psychol	active substances.					
	14. Clinical case of mental retardation, dementia, psychomotor agitation.							
Bibliography	Neurology Course (electronic form)							
	2. Geraint Fuller: Neurological Examination Made Easy, 5th edition.							
	ISBN-13: 978-07	02051777 ISBN-10: 07020						
	2013	North Commolo Inchus	Vlain (Trefts Hairransita)					
		Martin Samuels , Joshua I						
	School of Medicine, Boston, MA, Adams and Victors Principles of Neurology, ISBN: 9780071794794, McGraw Hill Professional,							
	2014	N: 9/800/1/94/94, MCC	fraw Hill Professional,					
		Comprehensive Medical I	Deference & Deview for					
	4. Toronto Notes – Comprehensive Medical Reference & Review for							
	MCCQE and USMLE II, Sara Mirali, Ayesh Seneviratne: Psychiatry chapter.							
	1 2 2 1	cal psychiatry for medical s	students Ioana Michitia					
		Cluj-Napoca. Editura medic						
	Haţieganu, 2017.		onia Omironomumu mmu-					
Evaluation:	Written exam	Practical exam	Activity during the					
	TTILLE CAULI	1 Iucacui Caum	semester:					
Percent of the	100%	%	%					
final grade:	10070	/0	/0					

	S				University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	Materials		
Discipline			Prosthetic Dentistry						
Cours title			OCCLUSION						
Responsible for lecture			Assoc. Professor Dr. Smaranda Buduru						
Responsible for practical			Assist.	Dr. Silvia	a Balhuc				
activit	\mathbf{y}			Assist.	Dr. Simo	na Iacob			
				Assist.	Dr. Mirel	a Fluera	su		
The fo	rmativ	ve catego	ry of	DS					
the dis	the discipline								
Compulsory discipline		Compulsory							
**	hours/week		ho	urs/semes	ter			Type of	
Year	Year Sem	С	LP/S	C	LP/S	SI	SI Total C	Credits	Assessment
4	2	2	3	28	42	55	125	5	Е

Pre-conditions	Morphology and function of the dento-maxillary apparatus
(Preliminary conditions)	(DMA)
Requisities for lectures	Amphitheatre/Lecture room with projection system
and practical activities	Dental offices with dental chairs and semi-adjustable
	articulators

Professional competences

- Capacity to adequately and contextually use the speciality terminology.
- Knowledge of anatomy and function of the DMA.
- Capacity to synthetize the interdisciplinary knowledge of anatomy, physiology, histology, in order to know and understand the main functions of the DMA: mastication, deglutition, phonation, physiognomy.
- Knowledge of mandibular cinematics and its application in practical dentistry.
- Acquiring concepts of functional dental occlusion.
- Acquiring detailed information regarding the mandibulo-maxillary reference positions (centric relation CR, mandibular rest position MRP, maximum intercuspation MI) and of mandibular eccentric positions, lateral and anterior guidance.
- Gaining clinical experience to perform a proper examination of the patients' dental occlusion.
- Gaining practical experience necessary to use properly the specific

	instruments for occlusal analysis (using the face bow and the semi-adjustable articulators with all corresponding accessories).				
Transversal	Using acquired knowledge in new contexts.				
competences	• Applying theoretical knowledge in the multidisciplinary practical activity.				
	• Establishing interdisciplinary correlations in the studied domains.				
General	Knowledge of dental occlusion concepts and capacity to correlate				
objectives	the occlusion particularities with the function of the DMA. Capacity to integrate the occlusion principles into all dentistry domains.				
Specific objectives	• Acquiring knowledge regarding the morphology of the masticatory muscles, the TMJ, the dental arches.				
	Knowledge of functional dental occlusion concepts.				
	• Study the fundamental mandibular positions: MI, CR, propulsion, laterotrusion, MRP.				
	• Knowledge of occlusal characteristics, both physiological and pathological.				
	Methods of recording and transferring the occlusal relationships.				
	• Instrumental and occlusal analysis; conceiving the occlusal treatment				
	plan.				
	• Exercising capacities of synthesis and bibliographical research/documentation.				

	LECTURES						
Teaching	Lecture, systematic and interactive display of information,						
methods	conversation.						
Content	1. Recapitulative notions of anatomy of the DMA. Jaw bones – the						
	maxilla and the mandible. Masticatory muscles (elevator and depressor						
	muscles), cervical muscles, muscles of the neck, muscles of the mimic						
	and of the tongue. Occlusal implications.						
	2. The temporo-mandibular joint (TMJ) – components (temporal bony						
	surface, mandibular condyles, articular disk, the capsule, the ligaments),						
	vascularisation, innervation, function.						
	3. Notions of dental morphology. Lateral teeth – cusps (supporting and						
	guiding), fossae, marginal ridges (embrasures); frontal teeth – incisal						
	edges, palatal surfaces. Planes and curves of occlusion: role, normal and						
	pathological situations. Occlusal stops. Functional and non-functional						
	dental contacts in the frontal and lateral area.						
	4. Mandibular cinematics. Posselt diagram. Analysis of mandibular						
	movements in transversal, frontal and sagittal plane.						
	5. Occlusal theories. Theories of functional occlusion: the theory of the						
	bilateral balanced occlusion, the gnathological theory, the functionalistic						
	theory, the myo-centric theory, the Romanian School theory.						
	6. The closing and opening movement of the oral cavity. Maximum						
	Intercuspation position: characteristics, the distribution of the maxillary						
	and mandibular contact points. Three-dimensional analysis.						

7. The retropulsion movement. Centric Relation. Definition. Relation between CR and MI. Manipulations techniques of the mandible in CR. Recording the CR position.
Recording the CR position
8. Mandibular Rest Position. Vertical dimension of rest and of occlusion
(VDO and VDR). Factors that influence the VD. Examining the VDO.
Consequences of modifying the VDO. Therapeutic modifications of the
VDO.
9. Functional occlusion criteria. Occlusal stops in MI, CR. Primary and
secondary occlusal trauma. Anterior guidance. Active and passive
interferences and premature contacts during propulsion. The Thieleman
phenomenon. The 6-year molar syndrome.
10. Functional occlusion criteria. Functional lateral guidance. Active an passive interferences and premature contacts during lateral guidance.
11. Articulators. Classification (non-adjustable, semi-adjustable, non-
adjustable), description, associated necessary procedures, advantages
and disadvantages, selecting an articulator. Describing components and
accessories. Describing the face bow and how to manipulate it.
12. Mounting casts in the semi-adjustable articulator and its
programming. Usage protocol of a semi-adjustable articulator.
Programming the condylar slope and the Bennett angles. Programming
the incisal guide table.
13. Functional occlusion in different clinical situations. Functional
occlusion applied in teeth- and implant-supported removable and fixed
dentures.
14. Occlusion in the digital era. Intraoral and cast scanning. CAD/CAM
systems and virtual articulators. Facial scanners. Computerised
axiography. The T-Scan computerised occlusal analysis system.
PRACTICAL ACTIVITIES
Teaching Interactive discussions regarding the practical subject. Practical
methods demonstration on a live patient. Verifying patient examinations.
Practical Clinical patient examination. Data entry in the practical notebook.
activity carried Impressions of both arches. Manipulate the articulator and learn the accessories and the facial bow. Make the IM, RC occlusal keys and
out by students accessories and the facial bow. Make the IM, RC occlusal keys and mounting the models in the articulator. Make eccentric occlusal keys
and program the articulator.
Content 1. Clinical patient examination with occlusal symptoms and temporo-
mandibular dysfunction.
2. Oro-facial muscle examinations (masticatory and cervical muscles).
3. TMJ examination.
4. The semi-adjustable articulator (SAA). Components and accessories.
5. Static occlusion analysis. The curves of occlusion.
6. MI position examination.
7. Cast mounting in the SAA (MI position).
8. Clinical analysis of anterior guidance (the propulsion movement).
9. Programming the condylar slope and performing the comparative
analysis using SAA.

	10. Clinical analysis o	f laterotrusion guidance	es (diduction).					
	•	Bennett angle and perfo						
	analysis using SAA.							
	12. Analysis the VDO	. Change of VDO in SA	AA.					
	13. Examining the CR.							
	_	the SAA (CR position).	Occlusal analysis in MI					
	and CR.							
Bibliography	_	ert S. Functional Occlus						
			n. Elsevier Mosby, 2015.					
			n and oral rehabilitation.					
	_	tessence Publishing, 20						
		anche O. L¢occlusion. E						
		ieb J.D. Le Bruxisme. E						
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		ifier- Traiter. Espace Id						
		za ocluzală. Clinic versu	s articulator. Ed.					
	NapocaStar, Cluj-Napoca, 2018.							
	7. Okeson J.P. Management of Temporomandibular Disorders and							
	Occlusion. 8th Edition. Elsevier Mosby, 2019.							
	8. Wright E. Manual of Temporo-Mandibular Disorders. 4th Edition.							
	Blackwell Publishing, 2019.							
	9. Robert B. Kernstein. Handbook of Research on Clinical							
	Applications of Computerized Occlusal Analysis in Dental							
	Medicine. IGI Gl		TT . 1:					
	10. Khanna N. Functional Aesthetic Dentistry. How to achieve predictable aethetic results using principles of a stable occlusion.							
		C i	les of a stable occlusion.					
	1th Edition. Sprin	iger, 2020. Riaz Yar. Practical Prod	paduras in Dantal					
		Wiley & Sons, 2021.	cedures in Dentar					
Evaluation:	Written exam	Practical exam	Activity during the					
Evaluation:	wituen exam	i racucai exaili	semester:					
Percent of the final grade:	45%	45%	10%					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	8 Surgical specialities
Discipline	Ophtalmology
Cours title	OPHTALMOLOGY
Responsible for lecture	Lecturer Dr Macarie Sorin

Responsible for practical			Lecturer Macarie Sorin Lecturer Dr. Dan Călugăru						
activity			Assist.	Assist. Dr. Cătălin Cărăuș Assist. Dr. Nemes Iulia					
				Lecture	Lecturer Dr. Ovidiu Samoilă Assist. Dr. Ioana Damian				
The formative category of			DD	DD					
the discipline									
Compulsory discipline			Compu	lsory					
	~	hours/week		ho	urs/semes	ter	m 1	~ "	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	1	1	14	14	22	50	2	E

Pre-conditions	-
(Preliminary	
conditions)	
Requisities for	Students will not attend classes / internships with their mobile
lectures and	phones open. Also, telephone conversations during the course will
practical activities	not be tolerated, nor will students leave the classroom in order to
	take personal phone calls. Consumption of food and drink during the
	course / internships is not allowed. Delay of students in classes and
	clinical internships will not be tolerated as it proves to be disruptive
	to the educational process
	Students will not attend classes / internships with their mobile
	phones open. Also, telephone conversations during the course will
	not be tolerated, nor will students leave the classroom in order to
	take personal phone calls. Consumption of food and drink during the
	course / internships is not allowed. Delay of students in classes and
	clinical internships will not be tolerated as it proves to be disruptive
	to the educational process. White robe

Professional competences	• Acquiring the basic skills useful for general practice: examining the eye in daylight, instillations, ointment administration, eyelid exam, foreign body extraction, visual acuity measurement, ophthalmoscopic exam, ability to recognize the most frequent pathology (hordeolum, conjunctivitis, minor traumatisms).
Transversal competences	 Ability to communicate effectively with the patient. Concern for professional development by training critical thinking skills; Involvement in research activities, such as the development of scientific articles.
General objectives	• Learning the basic principles of ophthalmology, proving the importance of ophthalmic knowledge for general pathology
Specific objectives	• Acquiring the basic skills useful for general practice: examining the eye in daylight, instillations, ointment administration, eyelid exam, foreign body extraction, visual acuity measurement, ophthalmoscopic exam, ability to recognize the most frequent pathology (hordeolum, conjunctivitis, minor traumatisms).

	LECTURES						
Teaching	Lectures, discussions, oral presentations, video presentation, Power						
methods	Point						
Content	1. Eye Anatomy and physiology						
	2. Visual Function						
	3. Refraction						
	4. Binocular vision						
	5. Orbit,						
	6. Eyelid,						
	7. Tear system, Conjunctiva						
	8. Cornea,						
	9. Uveea,						
	10, Lens						
	11. Glaucomas						
	12. Retina,						
	13 Optic Nerve Pathology						
	14. Traumas of the eye and oft the eye anexes						
	PRACTICAL ACTIVITIES						
Teaching	Practical Demonstrations, Oral presentations adn discussions, video						
methods	presentation, Clinical cases presetnations						
Practical	Aamnesis, general clinical examination, local clinical examination with						
activity carried	the eye and some ophthalmological examination devices. Visual						
out by students	functional examination (visual acuity, visual field, chromatic sense).						
	Instillations of therapeutic substances or in diagnostic tests. Digital						
	tonometry						
Content	1. Anatomy of the eye and of eye adnexia						
	2. Anamnesis in patients with ophthalmological pathology						
	3. Examination of eye adnexia						
	4. Examination of eye						
	5. Examination of visual acuity, and of color sens						
	6. Examination of visual field and contrast sensitivity						
	7. Refraction troubles – examination and threatment						
	8. Examination and therapy in strabismus,						
	9. Disesases of the orbit, eyelid- examination and threatment						
	10. Disesases of the lacrimal system and of conjunctiva - examination						
	and threatment						
	11. Disesases of the corneea and of uveea - examination and						
	threatment						
	12. Lens pathology . Optic nerve pathology and glaucoma -						
	examination and threatment						
	13. Retina pathology - examination and threatment						
	14. Diagnosis, treatment and management of adnexial and eye traum						
Bibliography	1. Oftalmogie , coord. Prof. Dr. Simona Nicoară , UMF "Iuliu						
	Haţieganu", Cluj-Napoca, 2020						

Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	90%	0%	10%

Institu	Institution for graduate and		Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Faculty			Dental	Dental Medicine					
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	llo-Facial	Surgery	and Rad	iology	
Discip	line			Facial a	and Neck	Surgery	and Oro-	Rhino-Lar	yngology
Cours title		OTO-RHINO-LARINGOLOGY							
Responsible for lecture		Prof Dr. Albu Silviu MD PhD							
Responsible for practical		Assistant Dr Gocea Anamaria MD,PhD							
activit	activity								
The formative category of		DS							
the discipline									
Compulsory discipline		Compulsory							
* 7		hours/week		ho	urs/semes	ter	- T	G 11.	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	2	2	28	28	19	75	3	E

Pre-conditions	Basic semiology and general surgery knoledge
(Preliminary	Basic knowledge regarding the usage of specific instruments and
conditions)	equipment
	Basic clinical and practical ENT knowledge
	Ability to interpret clincial and paraclinical examinations in ENT
	ENT applied knowledge of anatomy and pathophysiology
Requisities for	Amphitheater with video projector
lectures and	Students will have their mobile phones switched-off, recording of
practical	lectures with the mobile phone or any other deviced is forbbiden;
activities	Amphitheater with video projector in case certain parts of the stage
	will be presented in theory
	Examination rooms, wards, operation rooms in the ent department of
	cf cluj hostpital
	Students will need standard surgical department equipment

Professional competences	 Ability of appropriately using specialty terms. Familiarisation with theoretical and practical aspects of ENT
•	examination • Learning ENT pathology

	• Applying the learnt theoretical principles and techniques in the practical activity
Transversal competences	 Learning to correlate between ENT pathology and other medical specialites Practically applying the aquired theoretical knowledge Establishing interdisciplinary correlations Aquiring patient-communication skills Projecting interest into alimical research
General objectives	 Raising interest into clinical research The lectures aim to provide 4th year students general knowledge of ENT and teach them differential diagnosis and management of patients in this field Practical activities teach students the main ENT examination methods, recognising and diagnosing the pathology belonging to this field and the therapeutical principles.
Specific objectives	 Aquiring skills necessary for applying ENT treatment to patients with oro-maxilo-facial affections Familiarisation with doctor-patient relation, developing interdisciplinar vision of pathologies and over-all vision of the patient Training of synthesizing capacity and literature documentation

	LECTURES
Teaching methods	Power-point presentations, interactive tuition
Content	 Clinical anatomy notions- nasal pyramid and paranasal sinuses. Rhinological physiology and physiopathology notions. Rhinological syndromes: obstructive, secretory, senzitive, senzorial and vascular. Sino-nasal malformations. Nasal and sinusal trauma. Nasal foreign objects. Infections of nasal skin. Inflammation of nasal mucosa (acute and chronic rhinitis). Inflammation of paranasal sinuses (acute and chronic sinusitis).
	 3. Acute and chronic rhinosinusitis. Nasal polyposis Sino-nasal tumors. 4. Pharynx- clinical anatomy notions. Physiology and physiopathology of pharynx. Pharyngeal syndromes: digestive, respiratory, phonatory, senzitive, sensory. 5. Pharyngeal malformations. Pharynx foreign bodies. Pharyngeal
	trauma. Acute non-specific pharyngitis. 6. Health psychology. Social perception of medical profession. 7. Acute specific pharyngitis. Acute pharyngitis complications. Pharyngitis and hemathological syndromes. AIDS in ENT.
	 8. Chronic specific and non-specific pharyngitis. Pharyngeal tumors. 9. Larynx- clinical anatomy notions. Physiology and physiopathology of larynx. Laryngeal syndromes: senzitive, cough, dysphonia, dyspnea. Respiratory failure caused by superior obstruction. 10. Tracheostomy. Larynx malformations. Laryngeal trauma. Laryngeal foreign objects. Acute and chronic laryngitis. Motor disfunctions of the

	larynx. Laryngeal tumors.				
	11. Otology- clinical anatomy notions. Physiology and physiopathology				
	of the ear. Otological syndromes: hypoacusis, tinnitus, otalgia, otorrhea.				
	Peripheral vestibular syndrome.				
	12. External and middle ear malformations. Ear trauma. Intraauricular				
	foreign bodies. External ear inflammations. Acute and chronic otitis				
	media. Complications of otitis. Otitis sequelae. Inner ear pathology.				
	Neurosenzitive. Neurosenzitive hearing loss. Otological tumors.				
	13. Traheobronchial and oesphageal anatomy. Clinical aspects of				
	traheobronchial and oesphageal pathology. Tracheobronchial and				
	oesophageal stenosis. Traheobronchial and oesphageal foreign bodies.				
	14. Salivary glands anatomy and pathology.				
	PRACTICAL ACTIVITIES				
Teaching	Power-point presentations, interactive tuition, clinical activity held in				
methods	the ENT department.				
Practical	Case presentations, patient examination, interactive participation in				
activity carried	treatment planning and surgical interventions. Programmed interactive				
out by students	learning.				
Content	1. Clinical examination in rhinology. Paraclinical tests in rhinology.				
	Anterior and posterior rhinoscopy. Nasal endoscopy. Palpation of				
	paranasal sinuses.				
	2. Case presentations of rhinologic pathology.				
	3. Clinical examination of the pharynx.Para-clinical tests in				
	pharyngology. Oral cavity examination and bucopharyngoscopy.				
	4. Clinical case presentation of pharyngeal pathology.				
	5. Clinical examination of the larynx. Para-clinical examinations in				
	laryngology.				
	6. Palpation of the larynx. Palpation of the cervical lymphnodes.				
	Indirect laryngoscopy. Endoscopy of the larynx.				
	7. Clinical case presentation of laryngeal pathology.				
	8. Otological examination. Para-clinical tests in otology. Otoscopy.				
	9. Hearing evaluation. Examination of peripheral vestibular system.				
	10. Clinical case presentation of otological pathology.				
	11. Salivary glands examination, interpretation of clinical and				
	paraclinical findings.				
	12. Case presentations with salivary glands pathology.				
	13. Quiz from the entire material.				
	14. Exam simulation. Frequently asked questions				
Bibliography	1. OTORINOLARINGOLOGIE SI CHIRURGIE				
	CERVICOFACIALA, coordonator Sarafoleanu C. în "Tratat de				
	chirurgie", sub redacția Irinel Popescu, Constantin Ciuce, vol. 1,				
	Editura Academiei Române, 2012.				
	2. REABILITAREA SI IGIENA VOCII. Muresan R, Chirila M.				
	Editura. Alma Mater, 2010 3. TULBURARILE RESPIRATORII				
	IN SOMN. Sarafoleanu C coordonator. Editura Academiei				

 Functional and Se Alejandro Castro, Thieme 2020. Head and Neck C Edition by Eric M. Key Topics in Ott Editura Thieme 2 10. RHINOLOGY LAB TO THE C APPROACH I 	elective Neck Dissection, Laura Rodrigáñez, and Cancer: Management and M. Genden. 2019. Olaryngology by Rolar 1019. AND SKULL BASE SOPERATING ROOM	nd Jesús Herranz. Editura and Reconstruction, 2nd and, McRae, McCombe. BURGERY: FROM THE AN INTERNATIONAL RGALAS, WYTSKE J.				
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		G., Werner J. Editura				
6. ENT-HEAD AND NECK SURGERY: ESSENTIAL						
. Sinonasal Compli	ications of Dental Dise	ease and Treatment by				
Elsevier 2021.	unu i	25 dr. 5 . 1 . 1 miletografitatu				
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Anniko M, Berna	l-Sprekelsen M., Bonk	cowsky V., Bradley P.,				
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	OTORHINOLAR Anniko M, Berna Iurato S. Springer Cummings Otolar Bruce H. Haughe FRCSEd, K. Thor FACS, Marci M. Elsevier 2021. Sinonasal Complication of Complic	 EUROPEAN MANUAL OF MEDICIN OTORHINOLARYNGOLOGY, HEAD Anniko M, Bernal-Sprekelsen M., Bonk Iurato S. Springer Verlag, 2010. Cummings Otolaryngology, 7th Edition Bruce H. Haughey, MD, FACS, Valerie FRCSEd, K. Thomas Robbins, MD, FA FACS, Marci M. Lesperance, MD and I Elsevier 2021. Sinonasal Complications of Dental Dise Giovanni Felisati, Matteo Chiapasco. Editorem 1985. 				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	9 Mother and child
Discipline	Pediatrics
Cours title	PEDIATRICS
Responsible for lecture	Lect.Dr. Simona Cainap
Responsible for practical	Lect. Dr. Slăvescu Kinga
activity	Asist. Dr. Alina Grama
	Asist. Dr. Bota Mădalina
	Asist. Dr. Simionescu Bianca

		Asist. Dr. Militaru Mihai							
The formative category of		DD	DD						
the discipline									
Compulsory discipline		Compulsory							
		hours/week		hours/semester		ter	m 1	~ ·:	Type of
Year	Year Sem C LP/S		С	LP/S	SI	Total	Credits	Type of Assessment	
4	2	1	2	14	28	8	50	2	E

Pre-conditions	Anatomy, Physiology, Pathophysiology, Morphopathology, Medical
(Preliminary	Semiology, Clinical Pharmacology
conditions)	Performing the anamnesis; communication with the patient and
	identification of individual needs; identification of symptoms, signs of
	disease; Interpretation of results of laboratory or imaging
	investigations, classification in the syndrome, treatment
Requisities for	Students will not attend classes / practical work with mobile phones
lectures and	open. Telephone conversations during the course will not be tolerated,
practical	nor will students leave the classroom in order to take personal phone
activities	calls.
	Consumption of food and drink during the course / practical work is
	not allowed.
	Delay of students in class and practical work will not be tolerated as it
	proves to be disruptive to the educational process. Each student must
	complete their individual portfolio and skills with specific ones
	Mandatory hospital equipment

Professional • To understand and assimilate knowledge related to the growth and competences development of the child and the particularities of pathology and prevention of respiratory, digestive, metabolic, reno-urinary, cardiac, hematological, and neurological disorders. • To establish a correct diagnosis according to age groups. • To recognize the main characteristics of pediatric pathologies • To identify the risk factors in the anamnesis • To propose recommendations to change the lifestyle likely to reduce the incidence of non-biological / pediatric diseases by participating in the health education of the general population • To explain to a colleague / mentor, his patient / family the purpose and necessity of the regular medical check-up controls in children • To frame the symptoms presented by the patient in a syndrome, to be able to make a differential diagnosis, a positive diagnosis • To be able to explain the need for prophylaxis of infectious diseases, prophylaxis of infections during dental treatments, possible acute and chronic side effects, methods to prevent / combat them and the importance of timing and compliance with treatment • To evaluate qualitatively and quantitatively the pain and to formulate an

	 analgesic and adjuvant therapeutic strategy (prescription) for a patient with dental pathology, in which the quality of life is altered due to the uncontrolled pain symptoms To identify treatment emergencies and to know their specificity in the pediatric patient with the treatment methods To monitor and care for the patient with risk factors for dental procedures To identify and participate in the treatment of infectious complications in patients with cardiovascular malformations To learn to communicate with the pediatric patient / his family, the particularities, and specific impediments To understand the anxiety related to the disease and react empathetically To know the principles of communicating bad news in pediatrics To integrate the principles of professional ethics towards the pediatric patient (respect and empathy towards the patient, medical)
	confidentiality
Transversal	To present a pediatric clinical case
competences	 To present a pediatric crimical case To critically evaluate a colleague's clinical presentation (differentiates
competences	between important and irrelevant information)
	Professional development by training critical thinking skills (case)
	analysis)
General	• At the end of the course students will be able to integrate the theoretical
objectives	notions related to pediatric pathology in clinical practice, by identifying
	the needs and correct application of therapeutic methods and care
C • 0•	specific to the pediatric patient.
Specific	• At the end of the course students will be able:
objectives	To analyze the socio-economic impact of children's diseases at the
	population level
	• To synthesize and exemplify the exogenous and endogenous factors of pediatric pathology, as well as primary, secondary, tertiary
	prevention methods.
	 To know the indications for prophylactic treatment in pediatrics.
	To know the basics related to direct and indirect signs of the disease,
	confirmation of the diagnosis, investigations necessary to establish the diagnosis and treatment.
	To recognize correctly the acute and / or late reactions of different
	types of pediatric treatment and know the measures needed to combat /
	prevent them
	• To know the types of allergic reactions, the indications of the different
	stages of antiallergic drugs
	To diagnose a pediatric emergency

	LECTURES							
Teaching	Teaching courses, discussions, debates							
methods								
Content	1. Introduction in pediatrics. Ages of childhood - newborn, premature							
	2. Growth and development - nutrition							
	3. Congenital diseases. TORCH. Inborn errors of metabolism. Cystic							
	fibrosis							
	4. Respiratory disorders. URTI and pneumonia							
	5. Asthma. Respiratory failure.							
	6. Endocarditis							
	7. Congenital heart disease							
	8. Digestive diseases: GERD, acute gastroenteritis							
	9. Chronic diarrhea - malabsorption, chronic hepatitis							
	10. Renal disorders: UTI, nephrotic syndrome, acute renal failure-							
	11. Bleeding disorders: normal hemostasis, Henoch Schonlein purpura,							
	thrombocytopenia, VW, hemophilia. Splenomegaly							
	12. Dental fear and anxiety in pediatrics patients.							
	13. Anaplylaxis							
	14. PBLS-PALS							
	PRACTICAL ACTIVITIES							
Teaching	Bed-side teaching, clinical case presentation							
methods	Discussions							
	Debates							
	PPT presentation in course room							
Practical	Anamnesis, history, case presentations							
activity carried								
out by students								
Content	1. The history and the physical examination in pediatrics.							
	2. Growth and development.							
	3. Congenital diseases. TORCH. Inborn errors of metabolism.							
	4. Pneumonia.							
	5. Asthma.							
	6. Endocarditis							
	7. Congenital heart disease							
	8. Malnutrition. Cow's milk protein allergy							
	9. Celiac disease							
	10. Hepatitis							
	11. Immune thrombocytopenic purpura							
	12. Hemophilia							
	13. Anaplylaxis							
	14. PBLS-PALS							
Bibliography	1. Course support materials, ppt							
	2. Behrman R.E. Nelson – Textbook of Pediatrics, 21st ed.,							
	Philadelphia 2019							

Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	50%	30%	20%

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			6 Medi	cal specia	lties			
Discip	line			Pneum	ology				
Cours	Cours title			PNEUMOFTIZIOLOGY					
Responsible for lecture			re	Lecturer Bianca Gergely-Hancu Domokos					
Responsible for practical			Lecturer Bianca Gergely-Hancu Domokos						
activit	y			Assistant Ana Chiş					
				Assistant Andrei Leşan					
				Assistant Nicoleta Motoc					
The fo	rmativ	e catego	ry of	DD					
the dis	the discipline								
Compulsory discipline		Compulsory							
	~	hours/week		ho	urs/semes	emester		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	1	1	14	14	22	50	2	E

Pre-conditions	Anatomy, Physiology, Pathophysiology, Respiratory Semiology	
(Preliminary	Pharmacology, Radiology, Methodology of Scientific Research	
conditions)	Anamnesis, Communicating with the patient and family, Making the	
	objective exam, Interpreting an x-ray, Writing the correct prescriptions	
Requisities for	Telephone conversations will not be tolerated during the course, nor	
lectures and	students will leave the classroom for personal phone calls;;	
practical	Food and beverages are not allowed during the course /labs	
activities	It will not be tolerated the students' delay in the course and practical	
	work as it proves disruptive to the educational processEach student	
	must complete his / her individual portfolio and the abilities booklet	
	with the specific data	

Professional	Presentation and explanation of thoraco-pulmonary diseases approached
competences	at the Department of Pneumology: definition, epidemiology,
	etiopathogenesis, clinical presentation, diagnostic methods, positive and
	differential diagnosis, evolution and prognosis, prevention and treatment;
	Acquiring clinical (diagnostic and treatment) clinical algorithms,

	acquiring information on the principles of treatment, medicines used in clinical practice and how to administer them
	Developing practical skills, creating a medical logic to address the
	respiratory pathology, crystallizing a responsible attitude towards
	respiratory health by promoting a healthy lifestyle
Transversal	Have the ability to communicate effectively with the patient
competences	• Demonstrate preoccupation for professional development by engaging critical thinking skills;;
	Demonstrate involvement in research activities, such as the development
	of scientific articles
	Demonstrate the ability to use digital media for medical information
General	At the end of the course students will be able to develop a diagnostic and
objectives	treatment algorithm
Specific	At the end of the course, students will be able to perform a complete
objectives	examination, perform an anamnesis of patients with respiratory diseases,
	interpret a toracopleuropulmonary radiography, request other necessary
	investigations, analyze results in clinical context, establish diagnosis of
	reperfusion diseases, establish positive diagnosis, know the differential
	diagnosis), to know the principles of treatment, to know how to develop
	a treatment plan, to release a medical prescription

	LECTURES						
Teaching	-The material that is taught according to the analytical curriculum						
methods	of the subject will be presented using the video projector (Power						
	Point presentations, educational films), structured systematically						
	and accompanied by a rich and suggestive iconography (images,						
	tables and algorithmic schemes).						
	- The informative material is continuously adapted according to the						
	latest information in the field of respiratory diseases.						
	- It will also provide electronic presentation support						
Content	1. Pulmonary suppurations - pulmonary abscess						
	2. Pulmonary suppurations – bronchiectasis						
	3. Pulmonary suppurations - hydatic cyst						
	4. Diffuse interstitial lung disease						
	5. Idiopathic pulmonary fibrosis						
	6. Sarcoidosis						
	7. Sleep apnea syndrome						
	8. Mediastinal syndrome						
	9. Tabacology - tobacco addiction						
	10. Tabacology - smoking-induced pathology						
	11. Primary tuberculosis						
	12. Secondary tuberculosis						
	13. Oral tuberculosis						
	14. Treatment of tuberculosis						
	PRACTICAL ACTIVITIES						

Tooching
Teaching methods
memous
Practical
activity carried
out by students
Content
Bibliography
Content

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	Kasper, Hauser,	Longo, Jameson, Losc	alzo; Romanian edition, Ed.			
	All, 2014.					
	6. Murray and Nad	lel's Textbook of Res	spiratory Medicine, 7th ed.,			
	Sub red. V.Court	ney Broaddus & Joel l	D Ernst & Talmadge E King			
	Jr & Stephen C.	. Lazarus & Kathleen	F. Sarmiento & Lynn M.			
		ee D Stapleton & Mi	chael B. Gotway; Saunders			
	Elsevier, 2021					
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		ISBN 9780198746690				
		, , , , , , , , , , , , , , , , , , ,				
	•	Velayati Parissa Farnia, Elsevier Books Publishing House, 2016,				
	ISBN: 012803808X					
	9. Principles and Practice of Sleep Medicine, edited by Meir H.					
		Kryger Thomas Roth, Elsevier Books Publishing, 2016, ISBN:				
	9780323242882					
Evaluation:	Written Exam	Practical Exam	Activity during the			
			semester:			
Percent of the	75%	25%	0%			
final grade:						

Institu	Institution for graduate and		Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Prosthe	tic Dentis	stry			
Cours title			PROSTHETIC DENTISTRY						
Respo	nsible	for lectu	re	Lect. Dr. Andreea Kui					
Responsible for practical			Lect. Dr. Andreea Kui						
activit	y			Lect. D	Lect. Dr. Oana Almasan				
				Lect. D	Lect. Dr. Ana Ispas				
				Asist. Dr. Corina Tisler					
The fo	rmativ	ve catego	ry of	DS					
the dis	scipline	e							
Compulsory discipline			Compulsory						
**			/week	Но	Hours/semester		G 11:	Type of	
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
4	2	1	3	14	42	44	100	4	Е

Pre-conditions	Elementary knowledge of teeth morphology, dental materials,
(Preliminary conditions)	occlusion and single-tooth fixed prosthesis
Requisities for lectures	Amphitheater with video projector
and practical activities	Dental offices with dental units and all the specific
	equipment and materials for prosthodontic activity

Professional	• Ability to adequately use the specialty terminology
competences	•Knowledge regarding the etiology, complications and evolvement of
Competition	partial edentulism
	• Appling previous theoretical knowledge in order to correctly establish a
	complete diagnostic and a treatment plan for a particular case
	•Knowledge regarding the indications and contra-indications of fixed
	partial dentures for partial edentulism
	•Understanding the principles of treatment when manufacturing a fixed
	partial denture
	•Developing the practical abilities when preparing one or several abutments for a fixed partial denture
	•Understanding the technical processes for manufacturing a fixed partial
	denture
	•Knowing and understanding the clinical steps in performing a fixed
	partial denture
	•Knowing and understanding the impression methods used in fixed
	prosthodontics as well as the bite registration techniques
	•Knowledge of the theoretical aspects on esthetic analysis of a case and
	of the methods used in prosthodontics for a complete esthetic
Transversal	• The use of assimilated information in new contexts
competences	
competences	 Application of theoretical concepts in the practical activity Interdisciplinary correlations within the study domains
General	Acquiring theoretical and practical notions in order to perform fixed
objectives	partial dentures to patients with partial edentulism
Specific	Practicing the synthesis capacity that a future dentist should have by
objectives	using also the references in this domain
	 Acquiring the notions needed to establish a complete diagnosis and a
	complete treatment plan for a patient with partial edentulism, using a
	fixed partial denture
	• Practical application of the principles used in establishing a treatment
	plan with a fixed partial denture.
	• Understanding the interdisciplinary nature of a prosthetic treatment
	plan
	• Establishing a complete treatment plan, depending on the type of edentulism
	Clinical study of different types of prosthetic restorations
	• Attending during the practical activity to all the clinical steps required
	to perform a fixed partial denture, in correlation with acquiring

practical skills needed to execute all the clinical stages needed for a
particular case

	LECTURES				
Teaching	Interactive systematic lectures				
methods					
Content	1. Clinical steps in performing a metal-ceramic FPDP – similarities and				
	differences between several technological processes				
	2. Biomechanical and biodynamic principles for the design of a fixed				
	partial denture				
	3. Esthetic principles used in fixed prosthetic dentistry. Specific pre-				
	prosthetic treatments: wax-up techniques/ mock-up techniques in partial				
	edentulism				
	4. Pre-prosthetic treatments non-specific and specific, in case of a fixed				
	partial denture				
	5. Evaluation of the existent prosthetic treatments; different methods				
	used for removal of old/ existent prosthetic restorations				
	6. Clinical steps for performing a FPDP – impression taking; types of				
	impression; methods used for retraction of the gingival sulcus				
	7. Clinical steps for performing a FPDP – inter-occlusal registration for				
	FPDP; types of bite registration				
	8. Clinical steps for performing a FPDP – try-in procedures and				
	cementation of a FPDP; conventional cements used in FPDs				
	9. Definitive cementation of fixed partial dentures				
	10. All ceramic fixed partial dentures - ceramic systems; indications,				
	contra-indications, clinical and technological steps. Clinical steps in				
	performing an all ceramic prosthetic restoration – try-in steps, the use of				
	an adhesive system for cementation.				
	11. Maintaining the results obtained by performing the prosthetic				
	treatment				
	12. Full arch fixed prosthesis – tooth supported or implant supported:				
	indications, contra-indications, clinical and technological steps				
	13. Combination between fixed and removable prosthesis – combined				
	fixed and removable prosthetic restorations				
	14. Implant supported prosthetic restorations - indications, contra-				
	indications, advantages, clinical and technological steps				
	PRACTICAL ACTIVITIES				
Teaching	Interactive teaching activities				
methods					
Practical	Analysis of study models				
activity carried	Performing clinical examinations / completing the examination form				
out by students	Simulating dental grinding - fixed metal-ceramic partial denture intra-				
	oral grinding and making temporary prostheses				
	Establishing the complete diagnosis in different clinical situations				
G	Establishing the treatment plan				
Content	1. Case presentations - Clinical steps in performing a metal-ceramic				

	fixed partial denture						
		els of a patient with a par	tial edentulism mounted				
		lusal plan analysis, consi					
	mastication rehabilitat						
		case of different clinical	situations; establishing				
	the treatment protocol						
	<u> </u>	d mock-up silicon key o	n a model with partial				
	5. Removal of an old fixed partial denture using a destructive						
	disassembly	n a aliminal situation w	och tochnique				
		n a clinical situation – wa					
		<u>n a clinical situation — sa</u> of a metal framework in c					
	denture	n a metai framework in C	case of a fixed partial				
		of a metal-ceramic fixed	partial denture				
		finitive cementation of a					
		of complex edentulous a					
	performing a full arch		Ī				
	12. Conceiving compl	ex prosthetic treatment p	plans - involving fixed and				
	removable dentures						
	•	mplant supported prosth					
	14. Conceiving complex prosthetic treatment plans - involving fixed and						
D'I I'	removable dentures						
Bibliography	1. Lasserre Jean François`: Fusion. Art et nature dans les restauration						
	ceramiques. Quintessence Pub 2020. 2. Kui A, Picos A, Picos A, Ispas A. Fixed Partial Dental Prosthesis						
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	prosthodontics"	Fourth edition. Quint. F	Publ. Co. Chicago-Tokyo,				
	2012.						
			J. "Contemporary fixed				
		Fifth edition. Mosby Co:					
			2: restorative dentistry, 3rd edition. Br Dent J.				
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			l Occlusion in Restorative				
		osthodontics. Elsevier Inc					
	_		nagement of Diastema: A				
		Approach. Yildiz E, edi					
			visional Restoration Using				
T. 1		. MedEdPORTAL. 2011					
Evaluation:	Written Exam Practical Exam Activity during the						
Percent of the	50%	40%	semester:				
final grade:	50% 40% 10%						
mai grauc.							

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"								
postgraduate studies				Cluj-Napoca							
Facult	t y			Dental	Medicine						
Doma	in of st	udy		Health							
Acade	mic de	gree		Dental	Medicine	in Engli	sh				
Level	of cour	se		I and II	- License	and mas	sters				
Qualification				Doctor	of Dental	Medicii	ne				
Depar	Department			4 Prosthetics and Dental materials							
Discipline				Prosthetic Dentistry							
Cours	Cours title				CAL PRA	ACTICE	C				
Responsible for lecture				Assoc. Prof. Smaranda Buduru							
Comp	ulsory	disciplin	e	Compu	lsory						
	hours/week		hours/semester		~ ··	Type of					
Year	Year Sem		ear Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	2 0 40		0	160	0	160	2	C		

Professional competences	Medical practice activities in dental medicine units
Transversal competences	Ability to work in a team during therapeutic procedures
General objectives	Acquiring the knowledge of the workflow in dental medicine units
Specific objectives	 Knowledge of the working dental medicine. units functioning, the patients' and dental instruments' circuits Learning and exercising the examination of patients, elaboration of the patient chart Learning notions regarding preparation of the instruments for disinfection and sterilization and regarding instrument sterilization. Knowledge of the specific instruments used in the medical unit where the student goes for summer medical practice. Diagnosis, treatment plans after clinical examination, radiological examination and study models mounted in articulators.

	PRACTICAL ACTIVITIES						
Content	1. Knowledge of the structure and functioning of the dental unit.						
	2. Knowledge of the medical records and documents used in the medical						
	dental unit. Completion of medical charts.						
	3. Knowing and applying the medical attributes of the dental assistants						
	regarding receiving, registering and preparing the patients for the						
	clinical examination.						
	4. Development of communication skills with the patient: patient						
	history, informing and educating the patient. Development of special						
	communication skills according to: sex, age, childhood, or non-						

cooperating patient.

- 5. The preparation of medical instruments: washing, degreasing, syringe and needle control, sterilization, the maintenance and route of sterile materials.
- 6. Knowing and applying the attributes of the nurse regarding the maintenance of hygiene norms in the dental medical unit.
- 7. Elementary sterilization practices: chemical sterilization, steam sterilization, modern techniques of sterilization. Specifics in Covid era.
- 8. Knowledge of the protection methods against infectious diseases in the dental office.
- 9. Basic knowledge on the dental unit: components, action, and accurate position of the patient and of the physician.
- 10. Recognizing the specific instruments for oral examination. Recognizing the specific instruments for dental treatments performed in the dental office.
- 11. Development of radiological examination skills in dentistry: x-rays (bite-wing and peri-apical), ortopantomography, CBCT, MRI for TMJ and soft tissues.
- 12. Recognasing the occlusal characteristic of the patient: examination and diagnosing the occlusal pathology.

Treatment plan for partial edentulism treated with fixed partial dentures: indications, contra-indications, materials.

- 13. Clinical and technical lab procedures according to the materials used: preparations, cord insertions, impression, try in and cementation. CAD/CAM techniques: intra-oral scanners, design and knowledge of lab procedure and materials for milling and printing.
- 14. The preparation of dental materials for impressions, fillings. Positive and differential diagnosis in dental pathology.

Tooth extractions and other oral surgery procedures: indications, techniques.

Elaboration of treatment plans and documentation: study models, photos, facial bows.

Bibliography

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- 4. Okeson JP. Bell's Oral and Facial Pain. Seventh Edition. Quintessence Publishing; 2014.
- de Leeuw R,Klasser GD. Orofacial Pain: Guidelines for Assessment, Diagnosis, and Management (AAOP The American Academy of Orofacial Pain), 6th Edition. Quintessence Publishing, 2018
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	1, Quintessence Publishing, 2004.
	9. Massironi D. Precision in dental esthetics. First Edition,
	Quintessence Publishing, 2006.
Evaluation:	Evaluation of the practical activities performed during medical
	practice
Percent of the	
final note:	-

5TH YEAR

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	line			Maxillo	Facial Su	ırgery aı	nd Implan	tology	
Cours title			ORAL AND MAXILLO-FACIAL SURGERY						
Responsible for lecture			Prof.dr. Mihaela Băciuț						
Responsible for practical				Lecturer Dr. Armencea Gabriel					
activit	\mathbf{y}			Vacancy position Assist pos. 43					
				Vacancy position Assist pos. 45					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
		hours	/week	ho	hours/semester				Type of
Year	Year Sem		LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	3	3,5	42	49	59	150	6	Е

Pre-conditions	Anatomy of the dento-maxillary apparatus. Physiology of the dento-				
(Preliminary	maxillary apparatus. Pathophysiology. Anesthesia in dental medicine.				
conditions)	Oral and maxillofacial surgery. Oral pathology.				
	The ability to analyze anatomo-clinical parameters in a clinical study				
	case.				
	The ability to establish a clinical diagnosis in the oro-maxillofacial				
	sphere.				
	Critical analysis and interpretation of laboratory analyses and				
	paraclinical explorations.				
Requisities for	Amphitheater with a projection system				
lectures and	Laboratories with equipment specific to the practical work				
practical	Cabinets with dental units, salons, treatment rooms, operating rooms				

activities	
activities	L
Professional competences	 Acquirement of theoretical and practical notions for examinations, specific to the specialty. Acquirement of knowledge regarding the surgical diseases of the dento-maxillary apparatus, with emphasis on the traumatic, infectious and tumor pathology.
Transversal	The use of assimilated notions in new contexts
competences	• The application of theoretical notions in the practical activity
	 The establishment of interdisciplinary correlations within the studied domains The acquirement of the ability to communicate efficiently with the patient
	 The thorough thought for professional development through the training of the analytic and synthetic thinking abilities The demonstration of the involvement in research activities, such as participation in scientific research
General	• The course offers to the students of year V of Dental Medicine of the
objectives	Dental Medicine Faculty theoretical notions regarding the surgical diseases of the dento-maxillary apparatus, with emphasis on the traumatic, premalignant, tumor and cystic pathology. The thorough study of the trauma of maxillofacial soft tissues, maxillofacial skeleton and dento-periodontal traumas correlated with the clinical practice standards. The thorough study of maxillary bone cysts. • The practical work have as objective the acquirement of practical notions regarding the traumatic, tumor and cystic pathology. The thorough study of the trauma of maxillofacial soft tissues, maxillofacial skeleton and dento-periodontal traumas correlated with the clinical practice standards. The thorough study of maxillary bone cysts. The study of oral and facial premalignant lesions. The study of malignant tumors of the oral cavity and of the maxillofacial regions.
Specific objectives	 The acquirement of knowledge regarding surgical diseases of the dentomaxillary apparatus with emphasis on the traumatic, infectious and tumor pathology. The thorough study of the trauma of maxillofacial soft tissues, maxillofacial skeleton and dento-periodontal traumas correlated with the clinical practice standards. Infections of the deep veins of the oro-maxillofacial regions. Premalignant oral and facial lesions. Malignant tumors of the oral cavity and maxillofacial regions. Benign tumors of the soft parts and bone parts in the oro-maxillofacial sphere.

LECTURES			
Teaching	Lecture, interactive and systematic exposure, presentation of		

methods	patients from relevant cases. Oral presentations and Power-Point						
Contont	presentations.						
Content	1. Lacerations of the soft parts of the face and oral cavity (wounds).						
	2. Trauma of the face and maxillofacial skeleton.						
	3. Mandible fractures.						
	4. Fractures of the middle third of the face.						
	5. Fractures of the zygomatic-orbital complex and trauma of the nasal						
	pyramid. 6 Infactions of the deep spaces of the oro maxillofacial ragions. Oral						
	6. Infections of the deep spaces of the oro-maxillofacial regions. Oral						
	floor diffuse infection. Hemifacial diffuse infection. Lymphadenitis.						
	Specific infections. Osteitis and osteomyelitis. Perimaxillary fistulas.						
	7. Benign tumors of the soft parts and bones.						
	8. Premalignant lesions of the oral cavity and maxillofacial territory.						
	Onset forms of malignant oral and maxillofacial tumors.						
	9. Methods of early diagnosis of malignant tumors and their metastases						
	in the oro-maxillofacial regions.						
	10. Cancer of the oral floor. Cancer of the buccal region (cheek). Cancer						
	of the intermaxillary commissure.						
	11. Gingival cancer and cancer of the hard and soft palate. Cancer of						
	the tongue.						
	12. Skin cancer of the face. Malignant oro-facial melanoma.						
	13. Cancer of the amxilla and mandible. Maxillary sarcomas.						
	14. Surgical, radiotherapy and chemotherapy treatment of the malignant						
	oro-maxillofacial tumors.						
m 1.	PRACTICAL ACTIVITIES						
Teaching	Power-point presentation, interactive teaching.						
methods							
Practical	Interactive programmed learning. Clinical stages with the presentation						
activity carried	of the patients in relevant cases, model study, radiography study, patient						
out by students	consultation, assistance during surgical interventions.						
Content	1. Consultation of patients - wounds of the soft parts of the face and oral						
	cavity. Assistance with treatment.						
	2. Consultation of patients - trauma of the face and maxillofacial						
	skeleton. Assistance with treatment.						
	3. Consultation of patients - mandible fractures. Assistance with						
	treatment.						
	4. Consultation of patients - fractures of the middle third of the face.						
	Assistance with treatment.						
	5. Consultation of patients - fractures of the zygomatic-orbital complex						
	and trauma of the nasal pyramid. Assistance with treatment.						
	6. Consultation of patients - infection of the deep spaces of the head and neck. Assistance with treatment.						
	7. Consultation of patients - specific infections, osteitis, osteomyelitis,						
	perimaxillary fistulae. Assistance with treatment.						
	8. Consultation of patients - premalignant lesions of the oral cavity and						

- maxillofacial territory. Onset forms of malignant oro-maxillofacial tumors. Assistance with treatment.
- 9. Methods of early diagnosis of malignant tumors and their metastases in the oro-maxillofacial regions. Assistance with treatment.
- 10. Consultation of patients cancer of the oral floor. Cancer of the buccal region (cheek). Cancer of the intermaxillary commissure. Assistance with treatment.
- 11. Consultation of patients gingival cancer and cancer of the hard and soft palate. Cancer of the tongue. Assistance with treatment.
- 12. Consultation of patients skin cancer of the face and malignant orofacial melanoma. Assistance with treatment
- 13. Consultation of patients cancer of the maxilla and mandible. Maxillary sarcomas. Assistance with treatment.
- 14. Surgical, radiotherapy and chemotherapy treatment of the malignant oro-maxillofacial tumors. Assistance with treatment.

Bibliography

- 1. Data bases: Pubmed, Medline, Embase, Science Direct, WoS Clarivate Analytics, Clinical Key (Elsevier)
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- 3. Haggerty CJ, Laughlin RM. Atlas of Operative Oral and Maxillofacial Surgery, DOI:10.1002/9781118993729, John Wiley & Sons, Inc. 2015.
- 4. Fernandes R. Local and Regional Flaps in Head & Neck Reconstruction: A Practical Approach, 2015 John Wiley & Sons, Inc. 2015.
- 5. Kuriakose MA. Contemporary Oral Oncology. Diagnosis and Management, Springer, 2017.
- 6. Laskaris G. Color Atlas of Oral Diseases: Diagnosis and Treatment. ed. 4th Edition. Stuttgart: Thieme; doi:10.1055/b-005-148886, 2017.
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- 11. Laskaris G. Pocket Atlas of Oral Diseases, ed. 3rd Edition. Stuttgart: Thieme; doi:10.1055/b-006-161180, 2019.
- 12. Eufinger H, Kübler A, Schliephake H. Mund-, Kiefer- und Gesichtschirurgie. Operationslehre und -atlas. Springer Publishing House, 2021.
- 13. Cousty S, Laurencin-Dalicieux S. Drug-Induced Oral

	Complications, Springer Publishing House, 2021.				
Evaluation:	Written Exam	Practical Exam	Activity during the semester:		
Percent of the final grade:	33,3%	33,3%	33,3%		

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discipline			Dental Propedeutics and Esthetics						
Cours title			ESTHETICS IN DENTAL MEDICINE						
Responsible for lecture			Assoc. Prof. Dr. Alexandra Aghiorghiesei						
Responsible for practical			Assoc. Prof. Dr. Alexandra Aghiorghiesei						
activity			Lecture	er Dr. Cris	stina Gas	sparik			
				Lecturer Dr. Alexandru Grecu					
The fo	rmativ	e catego	ry of	DS					
the discipline									
Compulsory discipline			Compulsory						
**	hours/week		/week	ho	urs/semes			Type of	
Year	Year Sem	С	LP/S	C	LP/S	SI	Total C	Credits	Assessment
5	1	1	1	14	14	22	50	2	Е

Pre-conditions	Notions of Dental Morphology			
(Preliminary	Notions of Odontology. Direct restorations of teeth			
conditions)	Notions of Dental Prosthodontics – indirect restorations of the dental			
	arches			
	Notions of Dental Materials			
	Notions of patient examination in dentistry			
	Preparations for direct and indirect restorations			
Requisities for	70% of the lectures- Compulsory attendance			
lectures and	Amphitheater with multi-media system for projection			
practical activities	100% compulsory attendance			
	Completion of required practical tasks			
	Laboratories and dental offices with specific equipment required for			
	the practical activities			
	Review presentation			

Professional	• The ability to use specialized terminology, properly and in context
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competences	Knowledge of the particularities of esthetic perception
	Acquiring general information regarding doctor- patient and doctor-
	technician communication methods in esthetic dentistry
	Knowledge of the examination techniques used in esthetic dentistry
	 Acquiring general information regarding notions of facial, dento-facial and dental esthetics
	Knowledge of the modern methods of reestablishing the esthetic aspect
	of the dental arches, with direct and indirect restorations
	Knowledge of the visual and instrumental methods used for shade
	assessment in dentistry
	Acquiring general information regarding diagnosis and treatment
	methods of dental dyschromia
Transversal	Ability to use the information in a new context
competences	Ability to apply the theoretical knowledge on a practical basis
	Ability to establish connections between the studied subjects
General	• Acquiring information related to facial, dento-facial and dental esthetics,
objectives	required for complex, esthetic rehabilitations of the dental arches
Specific	• Knowledge of the general principles of dentist-patient-dental technician
objectives	communication in the field of esthetic perception
	Knowledge of the ideal norms of facial esthetics
	• Knowledge of dento-facial esthetics – relations of the dental arches with
	the face and lips
	Knowledge of dental esthetics and optical properties of teeth
	Knowledge of treatment methods for dental dyschromia

	LECTURES						
Teaching methods	Systematic, interactive lectures supported by PowerPoint presentations						
Content	1. Introduction. Definition- Esthetic Dentistry, Relation with the						
	branches of Dentistry. Esthetic perception. Factors that influence the						
	Esthetic perception						
	2. Facial esthetics. Frontal and profile assessment in clinical rest						
	position.						
	3. Dento-facial esthetics: the relations between teeth and facial soft						
	tissues assessed in clinical rest position, smile and during speech.						
	4. Esthetics of the dental arches. Shape of the dental arch. Frontal arch.						
	Symmetry of the dental arches. Position of the interincisal line/ maxillary						
	vs mandibular. Angulation of the dental longitudinal axis. Interdental						
	Contact areas, dental embrasures						
	5. Dental esthetics. Dental shape, Anatomic and apparent dental						
	dimensions. Convexity of the labial surfaces. Texture of the labial						
	surface. Gingival Esthetics						
	6. General principles of dentist-patient-dental technician communication						
	in the field of esthetic perception: verbal and written communication						
	methods. Visual communication. Preview methods: Virtual smile design.						

	7. General principles of dentist-patient-dental technician communication					
	in the field of esthetic perception. Preview methods: The wax-up					
	technique. Types of wax-up. Digital and analogue methods.					
	8. General principles of dentist-patient-dental technician communication					
	in the field of esthetic perception. Preview methods: The mock-up					
	technique. Indirect and direct mock-up. Motivational mock-up.					
	9. General principles of dentist-patient-dental technician communication					
	in the field of esthetic perception. Preview methods: Short-term and					
	long-term provisional restorations					
	10. Optical properties of the dentition. The notion of color. Color					
	parameters: hue, chroma, value. Translucency, fluorescence and					
	opalescence of the dental structures. Correlations between dental					
	structures and color.					
	11. Shade assessment in dentistry. Visual assessment methods: hue-based					
	and value-based shade guides.					
	12. Shade assessment in dentistry. Instrumental assessment methods:					
	dental spectrophotometers, colorimeters and other instruments.					
	Combined methods for shade assessment.					
	13. Dental dyschromia. Definitions. Classification. Etiology and					
	diagnosis.					
	14. Dental dyschromia. Treatment methods.					
	PRACTICAL ACTIVITIES					
Teaching	Practical demonstrations and exercises in the simulation lab and dental					
methods	office					
Practical	Color matching exercises using different shade assessment methods					
activity carried	Photography exercises					
out by students	Completion of an esthetic form					
•	Digital Smile Design exercises in Power Point					
	Preparations for veneers					
	Composite stratification exercises					
	Presentation of a review paper					
Content	1. Visual color assessment. Visual shade matching exercises using					
	different shade guides					
	2.Instrumental color assessment. Shade matching exercises using					
	different instruments					
	3. Completion of the esthetic examination form – frontal and profile					
	extra-oral examination					
	4. Completion of the esthetic examination form – intra-oral examination					
	5. Digital Smile Design – completion of the DSD workflow in					
	PowerPoint: case 1					
	6. Digital Smile Design – completion of the DSD workflow in					
	PowerPoint: case 2					
	7. Dental photography exercises: extra-oral photography					
	8. Dental photography exercises: intra-oral photography					
	9. Composite stratification exercises. Histological stratification – part 1					
	10. Composite stratification exercises. Histological stratification – part 2					
	put 2					

	11. Preparation exercis	ses for labial veneers				
	12. Preparation exercis	ses for veneers with prox	ximal and oral extension			
	13. Review presentation	ons				
	14. Review presentation					
Bibliography	1. Dudea D. Noțiuni de examinare în estetica dento-facială. Ed Grinta, 2010.					
	2. FB Naini. Facia Wiley-Blackwell	_	s and Clinical Diagnosis.			
		etic Analysis. A systems ssence books, 2004	atic Approach to Prosthetic			
	4. Chu S, Paravina	R, Devigus A, Miele	eszko A. Fundamentals of tions in Esthetic Dentistry.			
		nce Publishing Co, Inc,				
	~		ed prosthodontics, 4th ed.,			
	Quintessence Publishing Co Inc., 2012.					
	6. Lazarescu F (sub redactia) Comprehensive Esthetic Dentistry.					
	Quintessence Publ, Berlin 2015					
	7. WR Profitt et al. Contemporary Orthodontics. Sixth Edition. Elsevier Inc 2019					
	8. Goldstein R, Chu S, Lee E, Stappert C, Goldstein R. Esthetics in					
	dentistry. 3rd ed. Wiley Blackwell; 2018.					
	9. Freedman G. Contemporary esthetic dentistry. St. Louis, Mo.:					
	Elsevier; 2012.					
	10. Levine J. Smile design integrating esthetics and function.					
F 1 4	Edinburgh: Elsevier; 2016					
Evaluation:	Written Exam Practical Exam Activity during the semester:					
Percent of the final grade:	50%	30%	20%			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	3 Oral Rehabilitation
Discipline	Oral Health
Cours title	MANAGEMENT OF THE DENTAL OFFICE
Responsible for lecture	Prof. Dr. Lucaciu Ondine
Responsible for practical	Assoc Prof. 9 Vacant
activity	Assist. Dr. Sirbu Adina
	Assist. Dr. Toparceanu Adina Maria
	Assist. 47 Vacant

The formative category of		DS							
the discipline									
Comp	Compulsory discipline		Compu	lsory					
***	hours/week		/week	hours/semester		m . 1	a ::	Type of	
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Type of Assessment
5	1	2	1,5	28	21	51	100	4	Е

Pre-conditions (Preliminary conditions)	General concepts of management
Requisities for lectures and	Virtual amphitheater with a projection system
practical activities	Clinical activities

Professional competences	 Knowledge of requirements for setting up a dental office Knowledge of the organization of a dental office Knowledge of health care systems and of the Romanian health care system in particular Basic concepts regarding dental office management Basic concepts regarding the marketing techniques used in a dental office
	• Management of resources necessary for the functioning of a dental office
Transversal	Application of theoretical concepts to practical work
competences	Establishment of interdisciplinary correlations in the studied fields
General objectives	Knowledge of basic concepts of dental office management
Specific objectives	 Acquisition of concepts related to the health care system Acquisition of concepts related to the science of management in medical units Acquisition of knowledge related to human resource management in the dental office Acquisition of knowledge related to the management of financial resources in the dental office Acquisition of knowledge related to the management of communication in the dental office Acquisition of knowledge related to dental office marketing Acquisition of knowledge related to health economics principles and financing of health care services Practicing synthesis and bibliographic documentation skills

LECTURES		
Teaching	Lecture, systematic interactive presentation	
methods		
Content	1. Introduction to general management	

	2. The dental office brand				
	3. Principles of marketing in the dental office				
	4. Health care management – the science of management in medical				
	units – the role of the manager				
	5. Health care management – the science of management in medical				
	units – the role of leader				
	6. Health care management – the science of management in medical				
	units – entrepreneur				
	7. Human resource management in the dental office (curriculum vitae,				
	letter of intention for employment, job interview)				
	8. Human resource management in the dental office (curriculum vitae,				
	letter of intention for employment, job interview)				
	9. Human resource management in the dental office (curriculum vitae,				
	letter of intention for employment, job interview)				
	10. Management of communication in the dental office				
	11. Management of communication in the dental office. The treatment plan.				
	12. Management of financial resources in the dental office				
	13. Health economics principles. Financing of health care services				
	14. Presentation of the basic health care models and the model used in				
	Romania				
	PRACTICAL ACTIVITIES				
Teaching	Interactive teaching				
methods					
Practical					
1					
activity carried					
out by students					
	Workplace Safety Training				
out by students	2. Infectious control and management of hazardous materials in the				
out by students	2. Infectious control and management of hazardous materials in the dental office				
out by students	Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records 				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR 				
out by students	Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases				
out by students	Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases Carrying out the treatment plan				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases Carrying out the treatment plan Interdisciplinary communication in complex treatments 				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases Carrying out the treatment plan Interdisciplinary communication in complex treatments Communicating the treatment plan to the patient 				
out by students	2. Infectious control and management of hazardous materials in the dental office 3. The instrument circuit in the Dentistry office 4. Filling in patient's records 5. Discussing with the patient the informed consent and GDPR 6. Clinical management of difficult cases 7. Carrying out the treatment plan 8. Interdisciplinary communication in complex treatments 9. Communicating the treatment plan to the patient 10. Peculiarities of dental treatment among pediatric patients				
out by students	2. Infectious control and management of hazardous materials in the dental office 3. The instrument circuit in the Dentistry office 4. Filling in patient's records 5. Discussing with the patient the informed consent and GDPR 6. Clinical management of difficult cases 7. Carrying out the treatment plan 8. Interdisciplinary communication in complex treatments 9. Communicating the treatment plan to the patient 10. Peculiarities of dental treatment among pediatric patients 11. Peculiarities of dental treatment among geriatric patients				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases Carrying out the treatment plan Interdisciplinary communication in complex treatments Communicating the treatment plan to the patient Peculiarities of dental treatment among pediatric patients Peculiarities of dental treatment among geriatric patients Peculiarities of dental treatment among anxious patients 				
out by students	2. Infectious control and management of hazardous materials in the dental office 3. The instrument circuit in the Dentistry office 4. Filling in patient's records 5. Discussing with the patient the informed consent and GDPR 6. Clinical management of difficult cases 7. Carrying out the treatment plan 8. Interdisciplinary communication in complex treatments 9. Communicating the treatment plan to the patient 10. Peculiarities of dental treatment among pediatric patients 11. Peculiarities of dental treatment among geriatric patients 12. Peculiarities of dental treatment among anxious patients 13. Overview				
out by students Content	2. Infectious control and management of hazardous materials in the dental office 3. The instrument circuit in the Dentistry office 4. Filling in patient's records 5. Discussing with the patient the informed consent and GDPR 6. Clinical management of difficult cases 7. Carrying out the treatment plan 8. Interdisciplinary communication in complex treatments 9. Communicating the treatment plan to the patient 10. Peculiarities of dental treatment among pediatric patients 11. Peculiarities of dental treatment among geriatric patients 12. Peculiarities of dental treatment among anxious patients 13. Overview 14. Overview				
out by students	 Infectious control and management of hazardous materials in the dental office The instrument circuit in the Dentistry office Filling in patient's records Discussing with the patient the informed consent and GDPR Clinical management of difficult cases Carrying out the treatment plan Interdisciplinary communication in complex treatments Communicating the treatment plan to the patient Peculiarities of dental treatment among pediatric patients Peculiarities of dental treatment among geriatric patients Peculiarities of dental treatment among anxious patients Overview Gorczyca, Ann Marie. It All Starts With Marketing. Editura 				
out by students Content	2. Infectious control and management of hazardous materials in the dental office 3. The instrument circuit in the Dentistry office 4. Filling in patient's records 5. Discussing with the patient the informed consent and GDPR 6. Clinical management of difficult cases 7. Carrying out the treatment plan 8. Interdisciplinary communication in complex treatments 9. Communicating the treatment plan to the patient 10. Peculiarities of dental treatment among pediatric patients 11. Peculiarities of dental treatment among geriatric patients 12. Peculiarities of dental treatment among anxious patients 13. Overview 14. Overview				

	Dreams. Editura Advantage Media Group, 2015.				
	3. Okuji, Michael M	Okuji, Michael M. Dental Benefits And Practice Management: A			
	Guide For Succes	Guide For Successful Practices. Editura John Wiley & Sons, 2016.			
	4. Scambler, Sasha	Scambler, Sasha Jane et al. Sociology And Psychology For The			
	Dental Team. Edi	Dental Team. Editura Polity Press, 2016.			
	5. Miller, Chris H. I	. Miller, Chris H. Infection Control And Management Of Hazardous			
	Materials For The	Materials For The Dental Team. Editura Elsevier, 2017.			
	6. Polansky, Barry.	Polansky, Barry. The Complete Dentist: Positive Leadership And			
	Communication Skills For Success. Editura Wiley, 2017.				
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the	70%	%	30%		
final grade:					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Faculty			Dental Medicine						
Doma	Domain of study			Health					
Acade	Academic degree			Dental Medicine in English					
Level	Level of course			I and II- License and masters					
Qualif	Qualification			Doctor of Dental Medicine					
Depar	Department			4 Community medicine					
Discip	Discipline			Forensic Medicine					
Cours title			FORENSIC MEDICINE						
Responsible for lecture			Lecturer Dr. Chiroban Ovidiu						
Responsible for practical			Lecturer Dr. Chiroban Ovidiu						
activity			Assist. Dr. Ureche Daniel						
The formative category of		DS							
the dis	the discipline								
Compulsory discipline		Compulsory							
Year Sem	hours/week		hours/semester		m . 1	G 111	Type of		
	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
5	1	1	1	14	14	22	50	2	Е

Pre-conditions	Anatomy, Pathological Anatomy, Physiopathology, Semiology,
(Preliminary	Orthopedy, Neurosurgery, Radiology, Psychiatry
conditions)	
Requisities for	Students will not attend courses / practical activity with open mobile
lectures and	phones. Also, telephone conversations will not be tolerated during
practical activities	the course, nor do students leave the classroom to take personal phone calls;
	Food and beverages are not allowed during the course / practical activity;
	The student's delay in the course and practical work will not be

tolerated as it proves disruptive to the educational process.

Students will not attend courses / practical activity with open mobile phones. Also, telephone conversations will not be tolerated during the course, nor do students leave the classroom to take personal phone calls;

Food and beverages are not allowed during the course / practical activity;

The student's delay in the course and practical work will not be tolerated as it proves disruptive to the educational process.

Professional	To know the importance and purpose of legal medicine in modern
competences	society as an interface between Medicine and Justice;
	• To familiarize with the types of forensic activities: forensic medicine,
	clinical legal medicine, legal medicine laboratory and the necessary
	legal and medical knowledge, no matter the specialty they will be in the
	future; To be able to recognize a forensic situation and act accordingly
	in accordance with the legal provisions;
	• To know the main types of forensic law - certificate, report of findings,
	expert report / new expertise, analysis bulletin and approval.
Transversal	To demonstrate preoccupation for professional development by
competences	engaging critical thinking skills;
	To demonstrate involvement in research activities, such as the
	development of scientific articles;
	• To demonstrate the ability to use digital media for medical information.
General	• At the end of the course the students will know the types of forensic
objectives	activities: legal medicine prosecution, clinical legal medicine, legal
	medicine laboratory and the necessary legal and medical knowledge,
	will be able to recognize a forensic situation and act accordingly, in
	accordance with the legal provisions.
Specific	At the end of the course students will be able to:
objectives	• to know the procedures underlying the necropsy request forensic
	medicine and the situations in which forensic necropsy is required;
	• to be able to determine the way of death, to distinguish between non-
	violent death and violent death;
	• to acquire the notions of tanatogenetic mechanisms and tanatogenerator
	syndromes in both violent and non-violent deaths;
	• knowledge of early and late cadaveric changes (signs of real death),
	natural phenomena for the preservation of corpses, artificial methods of
	conservation, techniques of tanatopraxia;
	be able to do an external examination of the body with a focus on the
	type of death and possible causes of death and the recognition of a
	potential forensic case
	• to know the role of clinical legal medicine and the situations when
	forensic examination is required in the living person;
	assimilate the types of forensic examinations;

 to do the clinical examination with the identification of the legal aspects: traumatic injury findings - specifying their characteristics to assess the severity of bodily injuries in accordance with CP
provisions - to enumerate the provisions of art. 180, 181, 182 CP, understanding the notion of days of medical care;
• to know the types of complementary forensic examinations: forensic toxicology, forensic serology, histopathology;
 acquiring basic notions regarding toxicity, toxicity, particularities of forensic toxicology in relation to clinical toxicology;

LECTURES					
Teaching	Systematic exposure, conversation, demonstration, case report.				
methods	Oral exposures, PowerPoint presentations, movies				
Content	1. Overview in forensic medicine, Juridical bases, Legislation				
	2. Thanatology. Forensic Entomology.				
	3. Injuries and death caused by its own means of attack - human defense				
	4. Injuries caused by weapons. Falling and precipitation injuries				
	5. Forensic road accidents. Forensic Firearms				
	6. Mechanical asphyxiation				
	7. Physical agents. Chemical agents				
	8. Forensic examination of the body, autopsy and exhumation of corpses				
	9. The forensic examination of life persons. The forensic examination in				
	obstetrics and gynecology				
	10. Expertise in civil and family law				
	11. Forensic sexology aspects				
	12. Psychiatric expertise				
	13. Methodology of forensic examination in delaying and interruption of				
	prison sentence. Expertise forensic work capacity				
	14. Malpractice. Expertise of DNA and other kind of forensic				
	identification				
	PRACTICAL ACTIVITIES				
Teaching	Systematic exposure, conversation, demonstration, case report. Oral				
methods	exposures, PowerPoint presentations, movies				
Practical	- They need to demonstrate concern for professional development				
activity carried	through training the critical thinking skills;				
out by students	- Demonstrate involvement in research, such as the development of				
	scientific articles.				
~	- Demonstrate the ability to use digital methods for medical information				
Content	1. Introduction to legal medicine activity. Juridical bases, Legislation				
	2. Thanatology				
	3. Traumatic injuries.				
	4. Injuries and death caused by its own means of attack - human defense				
	5. Injuries caused by weapons. Falling and precipitation injuries				
	6. Mechanical asphyxiation				
	7. Forensic road accidents				

Percent of the final grade:	60%	30%	10%			
	semester:					
Evaluation:	Written Exam Practical Exam Activity during the					
	"Iuliu Hatieganu" 2017.					
Bibliography	1. Perju-Dumbravă Dan, Legal Medicine, Ed. Medicala Universitara					
	14. Expertise of DNA and other kind of forensic identification					
	13.Malpractice in dental activity.					
	12. Psychiatric experti	se				
	in obstetrics and gyneo	cology				
	11. The forensic exam	ination of life persons. The	e forensic examination			
	10. Chemical agents					
	9. Physical agents.					
	8. Firearms injuries.					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies			Cluj-Napoca							
Faculty			Dental	Medicine	:					
Domain of study			Health							
Academic degree			Dental	Medicine	in Engli	ish				
Level	of cour	se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			4 Com	munity m	edicine				
Discip	line			Occupa	ational me	edicine				
Cours title			PREV	ENTIVE	MEDIO	CINE				
Responsible for lecture			Lecturer Armand Rajnoveanu MD PhD							
Respo	Responsible for practical			Lecturer Armand Râjnoveanu MD PhD						
activit	y			Lecturer Răzvan Ionuț MD PhD						
				Lecturer Andreea-Iulia Socaciu MD PhD						
				Assist. Maria Bârsan MD PhD						
				Assist. Andreea-Petra Ungur MD PhD Stu						
The fo	rmativ	e catego	ry of	DS						
the dis	scipline	9								
Compulsory discipline		Compulsory								
**	2	hours	/week	hours/semest		ter		~ ··	Type of	
Year	Sem	ar Sem	Sem C L	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	1	1	14	14	22	50	2	E	

Pre-conditions	Semiology, internal medicine, imaging, hematology,	
(Preliminary	pharmacology, biochemistry	
conditions)	Performing and interpretation of medical anamnesis and objective	
	examination on body systems	
Requisities for	Amphitheater with projection system	
lectures and practical	Laboratories with facilities specific to practical activities	

activities	
Professional competences	• Through the classes and the clinical internship, it is aimed at transmitting to the medical student the necessary information in the field of occupational medicine, respectively of the diseases generated by factors specific to the workplace. The theoretical notions about occupational and work-related diseases are deepened during the clinical internship hours, by presenting cases of patients hospitalized with occupational diseases, presentation of filmed materials with various working conditions generating professional conditions, concrete ways of positive diagnosis of an occupational disease.
Transversal	To have the ability to communicate effectively with the patient
competences	 To demonstrate concern for professional development by training critical thinking skills. To demonstrate involvement in research activities, such as the elaboration of scientific articles To demonstrate the ability to use digital media for medical information
General	• Acquiring an informational core on the relationship between the
objectives	workplace and the state of health.
	• Students must acquire the basic knowledge in recognizing the main occupational diseases and the most important therapeutic and prophylactic principles.
Specific	At the end of the course students will be able to:
objectives	• define what occupational disease is, what is the work-related disease.

disease.

occupational disease.

examination of the patient.

relation to their normal value.

define what occupational disease is, what is the work-related disease.determine how occupational disease is distinguished from common

• specify the declaration circuit and the pathogenetic mechanisms of an

• personally make the professional anamnesis and the clinical

• to choose biotoxicological parameters of exposure and biological effect significant for each toxic and to know how to interpret them in

• look for external exposure markers (occupational stigmas).

activities

	LECTURES					
Teaching	Oral lectures duplicated by PowerPoint presentations, movies,					
methods	pictures					
Content	1. Professional risk factors, generalities					
	2. Occupational disease. Work-related illness					
	3. Occupational asthma					
	4. Pneumoconiosis					
	5. General notions of professional toxicology					
	6. Professional toxics: heavy metal poisoning					
	7. Professional toxics: poisoning with asphyxiants and organic solvent					

	8. Occupational disorders induced by physical factors (noise)
	9. Occupational disorders induced by physical factors (vibrations)
	10. Occupational risks in the health care workers
	11. Occupational disorders caused by extreme temperatures
	12. Occupational dermatitis
	13. Musculoskeletal overstrain: classification, high-risk jobs.
	14. Occupational disorders through musculoskeletal overstrain
	PRACTICAL ACTIVITIES
Teaching	Systematic exposure, conversation, problem solving, demonstration,
methods	investigation scheme and video-movie examples
Practical	1. Activity in the teaching classroom with the simulation of real-life
activity carried	situations encountered in the medical examinations of employment,
out by students	adaptation, periodicals and balance provided by the legislation in force.
	2. Presentation of clinical cases of occupational disease.
	Exercises to complete the specific documentation of occupational
	medicine reporting system.
	3. Use of instruments for measuring various physical and chemical
	factors.
	Interpretation of analysis reports.
	4. Participation in the different techniques of pulmonary function testing
	and exercises for the interpretation of those bulletins.
	5. Performing and interpreting the results of cardio-vascular functional
	tests.
	6. Familiarization with the radiological changes specific to pneumoconiosis by using chest X-rays from the collection of the
	Occupational Medicine Clinic.
	7. Going through the diagnostic stages for a case of occupational disease
	in the pathology included in the topic.
	8. Participation in the performance of an audiogram in the Audiology
	Cabinet of the Occupational Medicine Clinic. Interpretation of it.
	9. Watching a video about occupational cancers and discussing the
	situations presented in the film.
	10. Review the main topics addressed and verify basic practical
	knowledge by completing a recapitulative questionnaire.
Content	1. General duties of the occupational medicine service according to
	Convention 161 of the International Labour Organization.
	2. Notions of selection and professional orientation, adaptation
	examination of new employees and periodical medical examination.
	3. Diagnosis of occupational disease: criteria, reporting, research,
	declaration, and record keeping of occupational diseases.
	4. Methodology of research of working conditions and assessment of
	occupational risks.
	5. Methodological criteria for sampling and interpretation of analysis
	reports for physical factors at a workplace.
	6. Methodological criteria for sampling and interpretation of analysis
	reports for physico-chemical and chemical factors at a workplace.

	<u> </u>						
	-	- ·	nction in personnel at risk				
	of chronic obstructive	<u> </u>					
	_	y function testing, small	•				
	VEMS decline rate, bronchial challenge tests.						
		ctional tests, their applic					
	occupational medicine: Teslenko, Crampton and Brouha tests.						
		standard chest X-ray fo	•				
	•		al Classification ILO 2011.				
			iagnosis, treatment, and				
	* * *	of noise induced hearing					
	C		nal asthma, professional				
			ation with organic solvents.				
		e of professional Rayna					
		oss, professional or wor	k-related osteo-				
	musculoskeletal disord		1 1 . 1				
D'11' 1		er: risk factors, trades, te					
Bibliography		raite d'Ergonomie.	Ed. Octares Entreprises,				
	Marseille, 1987.	ndanatan) Madiaina O	overtională Ed Madicală				
		lu Haţieganu", Cluj-Naţ	cupațională. Ed. Medicală				
			Ianual de Medicina Muncii.				
	-						
	Ed. Medicală Universitară "Iuliu Haţieganu", Cluj-Napoca, 2000.Dessoile H., Scherrer J., Truhaut R. Precis de Medecine du Travail.						
	Ed. Masson, Paris, 1984.						
			e. Ed. Appleton & Lange,				
	Norwalk, Connec	-	La. rippicton & Lange,				
	-	· · · · · · · · · · · · · · · · · · ·	nii Muncii, Ed. Medicală,				
	București. 1978.		,				
	-	Medicina Muncii. E	Ed. Medicală Universitară				
	"Iuliu Haţieganu", Cluj-Napoca, 2006.						
	8. Rom William N. Environmental and Occupational Medicine. Ed.						
	Little, Brown & Co, Boston, 1992.						
	9. Tefas L, Pop I	L. Bolile profesionale	ale sistemului musculo-				
			nu" Cluj-Napoca, 2004.				
		_	Principles and Practical				
	Applications., Ed	d. Year Book Medical	Publishers, INC, Chicago,				
	1988.						
			ton P. Hunter's Diseases of				
	Occupation, 10th						
		scu T., Practica Medic	inii Muncii, Ed. Medicală,				
	București. 1978.		o				
			ficarea și completarea HG				
		supravegherea sănătăți					
T 1 4		Medicinii Muncii, Sited					
Evaluation:	Written Exam	Practical Exam	Activity during the				
			semester:				

Percent of the	75%	25%	0%
final grade:	1570	25 70	0 70

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies				Cluj-Napoca					
Faculty			Dental	Medicine	:				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	·se		I and II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Periodo	ontology				
Cours title			PERIODONTOLOGY						
Responsible for lecture			Lecturer Dr. Andreea Ciurea						
Respo	nsible i	for pract	ical	Lecturer Dr. Stefan Adrian Petrutiu					
activit	\mathbf{y}			Assistant Dr. Cosmin Vasile Cioban					
				Assistant Dr. Daniela Condor					
				Assistant Dr. Cristina Iulia Micu					
				Assistant Drd. Diana Onet					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline		Compulsory							
37	G	hours/week		hours/semester		m . 1	T 1 0 "	Type of	
Year	Sem	m C LP/S C	C	LP/S	SI	Total	Credits	Assessment	
5	1	2	3,5	28	49	48	125	5	Е

Pre-conditions	Histology, immunology, physio-pathology, microbiology, internal
(Preliminary	medicine, scientific research methodology
conditions)	Clinical studies analysis
Requisities for	Amphitheater with projection system/ Online virtual system
lectures and	Preclinical laboratory with specific equipment for practical activity
practical activities	Dental units
	Application of the internal rules and regulations

Professional competences	 Ability to use correctly the periodontal terminology Ability to perform a full periodontal examination 				
	 Ability to make a correct diagnose and prognostic 				
	Ability to conceive a treatment plan and monitor its results				
	• Ability to perform supra and sub-gingival scaling manual or mechanical				
	Knowledge of the periodontitis general risk factors, their etiological and prophylactic role in periodontitis, the importance of collaboration with the general physician				
	Knowledge of periodontal surgery techniques and the capability to				

	explain their necessityAbility to collaborate with the periodontist for managing complex
	interdisciplinary treatments
	Ability to analyze the results of periodontal therapy and to manage the supportive periodontal therapy
	 Ability to synthesize in an interdisciplinary manner the clinical data in correlation with the complementary investigations (histological, immunological, biochemical, physio-pathological, microbiological) to assure a correct treatment plan Ability to use specific periodontal instruments according to standard
	international protocols
Transversal	Ability to communicate with the periodontal patient regarding the
competences	periodontal disease
	Ability to motivate and educate the periodontal patient regarding the self-performed plaque control
	Ability to communicate with other professionals for the management of
	the periodontal systemic factors and conditions
	Application of the theoretical knowledge in the practical activity
	Ability to use the digital tools for patient awareness
General	• At the end of the activity the student will be able to properly evaluate
objectives	the periodontal status of the patient and to differentiate the healthy and affected periodontium. The student will be familiar the principles of the evidence-based treatment.
Specific	Provide the theoretical knowledge about periodontal entities semiology
objectives	and risk factors. Provide theoretical knowledge regarding the base
	principles of periodontal treatments and also the therapeutically
	protocols for different forms of disease.
	Provide examination protocols and specific periodontal treatment plans
	based on the theoretical knowledge
	Provide the necessary knowledge for clinical application of the above notions
	Developing the practical abilities for using the examination and
	specific treatment protocols by exercising on periodontal models and afterwards in the clinical office.
	Developing the ability of synthetizing and communicating with other specialties in order to manage the periodontal affected cases in proper conditions
	Exercising the ability of scientific documentation

	LECTURES			
Teaching	Lectures, Systematic and interactive lecture, Power point/ oral			
methods	presentations			
Content	1. Vulnerable anatomical elements of the periodontium and their clinical			
	expression			
	2. Muco-gingival environment. The development of the biofilm on the			

	dental surface. The oral microbiome, dysbiosis and periodontal						
	implications. Microbiologic tests.						
	3. The bacterial specificity in different forms of periodontal disease.						
	Bacterial interactions in the sub gingival biofilm.						
	4. Pathogenic mechanisms of gingivitis and of periodontitis.						
	Requirements for attachment loss initiation						
	5. Periodontal clinical examination. The examination of the gingival						
	mucosa and of the local risk factors						
	6. Periodontal clinical examination. Clinical signs of periodontal						
	attachment loss: periodontal pocket, furcation lesion, mobility, gingival						
	recession.						
	7. Radiological examination in periodontology. Trauma of occlusion						
	8. Classification of periodontal status and conditions. Gingival and						
	periodontal health. Classification of gingival diseases - clinical entities-						
	description, positive and differential diagnosis						
	9. Classification of periodontal disease. Staging and grading.						
	Periodontitis- clinical entities, positive and differential diagnosis.						
	10.Systemic risk factors associated with periodontal disease –						
	classification, genetic factors, stress, smoking.						
	11. Systemic risk factors associated with periodontal disease –						
	diabetes/The management of the diabetic patient suffering of						
	periodontitis; Cardiovascular disease/ The prophylactic and therapeutic						
	management of these 2 related complex diseases						
	12. Periodontal emergencies: necrotizing periodontal entities,						
	periodontal abscess, herpetic gingival-stomatitis						
	13. Furcation involvement: clinical examination and treatment.						
	14. Periodontal treatment plan. Staging of periodontal therapy by the						
	type and the gravity of the destruction. The role the personal plaque						
	control in periodontitis patient. Initial therapy in periodontitis.						
	PRACTICAL ACTIVITIES						
Teaching	Power point presentations, interactive presentation, providing written						
methods	protocols. Providing case definitions. Filmed demonstrations.						
Practical	Preclinical exercises of evaluation of clinical parameters on periodontal						
activity carried	learning models.						
out by students	Evaluation of clinical cases.						
	Anamnestic and intervention exercising on clinical cases.						
G	Exercising the clinical procedure.						
Content	2. Evaluation of: probing pocket depth, attachment level, gingival						
	recession, furcation on periodontal models (preclinical encounter)						
	3. Radiographic evaluation of the alveolar bone (preclinical						
	encounter)						
	4. Interpretation of diagnostic based upon evaluated clinical and						
	nonclinical parameters: case study (preclinical encounter)						
	5. Clinical evaluation of dental hygiene and gingival inflammation.						
	Recording the data in the observation chart (clinical encounter)						
	6. Clinical evaluation of: pocket probing depth, attachment loss,						

	gingival racassics	n, furcation. Data recordi	ing in the observation			
	chart (clinical end		ing in the observation			
		on of: pocket probing der	oth, attachment loss.			
		n, furcation. Data recordi				
	chart (clinical end		8			
	`	ntification of the etiologi	ical risk factors.			
		_	plan (clinical encounter)			
		tification; Risk factors m				
	therapy stage. (cl	inical encounter)				
	10. Gingival recession	n: etiologic risk factors o	determination; diagnostic			
		reatment plan determina				
			determination; diagnostic			
		ment plan determination				
	-	ent examination. Establis				
		omplex treatment plan (c				
	-	ent examination. Establish				
		omplex treatment plan (c	·			
	 14. Supragingival calculus diagnostic. Supragingival scaling (clinical encounter) 15. Subgingival calculus diagnostic. Subgingival scaling (clinical 					
	encounter)					
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	Iuliu Hatieganu 2019 (ISBN 978-973-693-902-0)					
	2. Soancă A, Roman	A. Concepts in Periodo	ntal Therapy. Ed Med			
	Univ Iuliu Hatieg	ganu, 2019 (ISBN 978-97	73-693-897-9).			
	1	ă A. Clinical manual of p				
		ganu 2011 (ISBN 978-9	•			
			, Carranza FA. Newman			
		Clinical Periodontology	, 13th Edition, Elsevier,			
	2018	andh T. Ciannahila W	I Com M(Edo) Lindholo			
			V, Sanz M(Eds). Lindhe's			
		sgaard, 2021(ISBN: 978	tistry, 7th Edition, Wiley-			
Evaluation:	Written Exam	Practical Exam	Activity during the			
L'uiuuioii.	, , i itteli Lizulli	Tuchen Dann	semester:			
Percent of the	50%	40%	10%			
final grade:						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Depar	Department			3 Oral Rehabilitation					
Discipline			Oral Re	Oral Rehabilitation					
Cours	title			ORAL	REHAB	ILITAT	ION		
Respo	nsible f	for lectu	re	Prof. d	r. Arank	a Ilea			
Respo	nsible f	for pract	ical	Assist.	Dr.Sava	Arin			
activit	y			Assist.	Dr.Feurd	ean Clau	dia		
				Assist. Dr.Pop Andreea					
				Assist. 46 – vacancy					
The fo	The formative category of			DS	DS				
the dis	scipline	<u> </u>							
Comp	Compulsory discipline			Compu	lsory				
	hours/week		ho	urs/semes	ter	m 1	~ "	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	2	3,5	28	49	73	150	6	E

Pre-conditions	Knowledge of Odontology, Endodontics, Prosthetics,
(Preliminary	Periodontology, Maxillofacial Surgery, Implantology, Orthodontics,
conditions)	Internal Medicine, Pharmacology, Pathophysiology
Requisities for	Amphitheater with projection system/Online platform
lectures and	Laboratories with facilities specific to practical activities/ Online
practical activities	platform

D 6 1	
Professional	o Acquisition of knowledge related to complex oral rehabilitation of
competences	patients. The holistic approach of the patient in the dental medicine
	office
	• The ability to decide on the opportunity of a dental operation in the
	7 7 7
	context of the presence of a general condition.
	• The ability to evaluate the particularities of the dental treatment
	performed in patients with general conditions.
	o The ability to evaluate the bidirectional interrelationship between
	general disorders and oral cavity pathology.
	• • • • • • • • • • • • • • • • • • • •
	o How the therapeutic decision is influenced in the dental medicine
	cabinet by the metabolic and functional imbalances.
	o The way in which the therapeutic decision is influenced in the dental
	medicine cabinet by the complex chronic treatments of the patients.
	• • Prevention of transmission of infectious diseases in the dental
	office
Transversal	• Integration of the concepts assimilated in Ododntology, Endodontics,
competences	Prosthetics, Periodontology, Maxillofacial Surgery, Implantology,
_	Orthodontics, Internal Medicine, Pharmacology, Pathophysiology in
	the context of complex oral rehabilitation
	*
	The application of theoretical notions in practical activity
	 Establishing interdisciplinary correlations in the studied fields
General	Acquiring knowledge about complex oral rehabilitation of the patients.

objectives	Particularities of dental treatment in patients with comorbidities.
Specific objectives	 Specific preparation of the patient with comorbidities in order to rehabilitate the oral cavity. Establishing the opportunity of dental treatments for the patient with general disorders. Specific patient preparation with associated conditions, optimal response time and post-interventional follow-up. Complex rehabilitation of affected dento-maxillary system functions
	on stabilized dento-periodontal structures.

	LECTURES					
Teaching	Lecture, systematic, interactive exposure					
methods	Oral displays, Power-Point presentations					
Content	1. The concept of oral rehabilitation. Holistic approach of the patient in					
	the dental office. Case report. Medical documents used in dental office.					
	2. Particularities of dental treatments in patients with cardiovascular					
	disease - hypertension					
	3. Particularities of dental treatments in patients with cardio-vascular					
	disease – ischemic heart disease					
	4. Particularities of dental treatments in patients with cardiovascular					
	disease – heart rhythm disorders. Oral anticoagulants					
	5. Particularities of dental treatments in patients with cardiovascular					
	disease – heart failure.					
	6. Particularities of dental treatment in the patient with cardiovascular					
	disease – bacterial endocarditis					
	7. Risks of the patient with metabolic syndrome in the dental office.					
	Particularities of dental treatments in patients with mellitus diabetes.					
	8. Particularities of dental treatment in the patients with metabolic					
	syndrome, obesity.					
	9. Particularities of dental treatment in the patients with neurological					
	disorders: ischemic and hemorrhagic stroke, paresis and facial paralysis.					
	10. Particularities of dental treatment in the patient with neurological					
	disorders: paresis and facial paralysis .					
	11. Particularities of dental treatment in patients with neurological					
	disorders: multiple sclerosis; secondary trigeminal neuralgia					
	12. Particularities of dental treatment in patients with epilepsy.					
	13. Risks of the patient with metabolic and functional unbalanced liver					
	diseases in the dental office.					
	14. Infectious risk of the patient with viral hepatic diseases, blood post-					
	exposure accidents and infection control in the dental office PRACTICAL ACTIVITIES					
Teaching	Power-point interactive teaching presentations. Practical demonstration.					
methods	1 ower-point interactive teaching presentations. Fractical demonstration.					
Practical	Exooral, endooral and general clinical examination					
activity carried	Staging of dental treatment in the context of general condition					
activity carried	bugning of dental treatment in the context of general condition					

out by students	Carrying out the learn	Carrying out the learned techniques				
Content	1. Examination of patients with general disorders and dental conditions.					
	-	general objective exam.				
		bservation sheet. Establi	shing the diagnosis of			
	-	and diagnosis of general	2 2			
		tment plan in the contex				
	_	ion in the dental office	C			
	4. Circuit of medical documents in the dental office.					
	5. Restoration of the oral cavity structures and functions in adult patients					
		clinic.Patients with cardi	_			
	6. Performing dental to	reatments, scaling, extra	ctions in patients with			
	diabetes mellitus.	_	_			
	7. Performing dental to	reatments, extractions, si	uppuration incisions in			
	patients with obesity a	and metabolic syndrome				
	8. Dental treatment, ex	xtractions, suppurations i	ncision in patients with			
	neurological disorders	- strokes.				
		_	ons, suppuration incisions			
			ole sclerosis, essential and			
	secondary trigeminal i					
		treatments, extractions,				
		gical - epilepsy disorders.				
	11. Performing dental treatments, extractions, suppuration incision in					
	patients with liver disorders 12. Performing dental treatments, scaling, extraction, suppuration					
			action, suppuration			
	incisions in patients w					
		oral cavity pathology in p	patients with			
	comorbidities in the de					
Dibliography	14. Practical Exam - c	•	r. C Caulty Chymabill			
Bibliography	1. Scully, s Medical problems in dentistry - C. Scully, Churchill Livingstone, 7th edition, 2014, ISBN: 9780702054013, eBook					
		65583, eBook ISBN: 978	*			
			alizie facială în cabinetul			
		•	pala Ardeleană; București,			
	_		SBN 978-606-8770-13-0;			
	ISBN 978-606-71		321 7 7 6 6 6 6 7 7 6 12 6 7			
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			Hațieganu", Cluj Napoca,			
	2002, ISBN 973-					
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		-	nteanu, H. Rotaru – ED.			
		poca, 2001, ISBN 973-5				
Evaluation:	Written Exam	Practical Exam	Activity during the			
			semester:			
Percent of the	30%	60%	10%			
final grade:						

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	Faculty				Medicine	;			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and radio	logy	
Discip	Discipline			Maxillo	Facial Su	ırgery aı	nd Implan	tology	
Cours title				DENTAL IMPLANTOLOGY					
Responsible for lecture			Prof. Dr. Bran Simion						
Responsible for practical			Vacancy position Prof. pos. 6						
activit	activity			Assist	t. Dr. Barl	bur Ioan			
				Assist. Dr. Opriș Horia					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
X 7	Voor Som	hours/week	/week	ho	urs/semes			Type of	
Year		C	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	1	2	14	28	58	100	4	Е

Pre-conditions	Knowledge of prosthetic restorations (clinical and in the dental				
(Preliminary	laboratory). Morphology and function of the oral system. Dental				
conditions)	prosthetics. Dental materials.				
	The ability to analyze the anatomical, clinical and radiological				
	parameters during a case study.				
	The ability to make various dental impressions.				
Requisities for	Location for course unfolding – amphitheater with projection				
lectures and	systems				
practical activities	Laboratories that offer proper conditions for the practical courses to				
	unfold				
	Offices with dental chairs				

Professional competences	• Acquiring the theoretical and practical notions that concern the technology of implant-supported dentures.						
Transversal	• The use of the acquired knowledge in new contexts						
competences	• The implementation of theoretical notions in practical situations						
	 Establishing inter-disciplinary correlations between the studied subjects Gaining the ability to communicate efficiently with the patients Underlining the interest for constant professional improvement by 						
	training the analytical and synthetical thinking						
	Taking part in research						
General	• The course offers the ifth year students of the Dental Medicine Faculty						

objectives	 basic notions concerning implant-supported dentures. Acquiring knowledge of diagnosis in implant-supported dentures. Studying the implant's components. Manufacturing implant-supported dentures and studying their maintenance. The practical courses have the same objectives, from a practical point of view. 								
Specific objectives	 Studying basic notions concerning implant-supported dentures. Acquiring knowledge of diagnosis in implant-supported dentures. Studying the implant's parts. Manufacturing implant-supported dentures and studying their maintenance. 								

	LECTURES
Teaching	Lecture, Systematic and interactive explanations. Oral
methods	presentations, Power-Point presentations.
Content	1. Introduction in Implantology. The steps of implant treatment.
	Terminology
	2. Examination and diagnosis in Oral Implantology
	2.1 Clinical diagnosis
	2.2 Prosthetic diagnosis
	Occlusal diagnosis
	3. Indications and contraindications in Oral Implantology. Types of
	totally or partially edentulous dental arches.
	4. Insertion of endosseous dental implants. Dental implant surgical
	guides. 3D planning.
	5. Implant supported dentures. Progressive bone loading.
	6. Taking impressions of the implants. Direct and indirect impression
	methods.
	7. Prosthetic abutments
	8. White and red aesthetics
	9. Conception and manufacturing of the superstructure.
	10. Cement-retained crowns and bridges. Screw-retained crowns and
	bridges
	11. Single tooth restaurations
	12. Special means-retained crowns and bridges. Mixt dentures – teeth
	and implant supported.
	13. The maintenance of implant supported dentures.
	14. Treating the complications in implant prosthetics. Repairing the
	dentures.
	PRACTICAL ACTIVITIES
Teaching	Interactive teaching.
methods	
Practical	Interactive teaching. Practical courses that consist of presenting methods
activity carried	to produce the implant supported dentures.
out by students	

Content	_	lantology. The stages of	f implant treatment.					
	Terminology	'	4-1					
		iagnosis in Oral Implan	tology					
	- Clinical diagnosis							
	- Prosthetic diagnosis							
	- Occlusal diagnosis		1 . 1 TD . C					
	3. Indications and contraindications in Oral Implantology. Types of totally or partially edentulous dental arches.							
	4. Insertion of endosseous dental implants - surgical guides. 3D planning							
	software.	1	11					
		lentures. Progressive bo						
	methods.	of the implants. Direct	and indirect impression					
	7. Prosthetic abutmen	ts. Red and white aesth	etics.					
	8. Conception and ma	anufacturing of the supe	erstructure.					
	9. Cement-retained crobridges	owns and bridges. Screv	w-retained crowns and					
	10. Single tooth resta	urations						
			ne.					
		nined crowns and bridge						
		es – teeth and implant s						
		of implant supported de						
	dentures.	lications in implant pro	strictics. Repairing the					
Bibliography		ned, Medline, Embase, S	Science Direct WoS					
Dibliography		cs, Clinical Key (Elsevi						
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	Sons Inc. 2012.	g D. Impiant Site Devel	opinient, somi whey &					
		vthas A. Management c	of Complications in Oral					
		Surgery, DOI:10.1002	_					
	Wiley & Sons Inc		77701110704473, 30III					
	_	asco M. Sinonasal Com	plications of Dental					
			gnosis–Management. ed.					
			55/b-006-149711, 2015.					
			s: Etiology, Prevention,					
		John Wiley & Sons Inc						
		h CE. Avoiding Compli						
	1	sevier, Mosby, St. Louis						
		R. Misch's Contempo						
		ıra Elsevier, 2020.	3 1					
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	Treatment Planni	ng to Guided Surgery, S	Springer, 2021.					
Evaluation:	Written Exam	Practical Exam	Activity during the					
	semester:							
Percent of the	70% 30% -%							
I ci cent of the	70%	30%	-%					

Inctitu	ıtion fo	r gradua	to and	University of Medicine and Pharmacy "Iuliu Haţieganu"					
Institution for graduate and			Cluj-Napoca						
postgraduate studies				,					
Facult	t y			Dental	Medicine	;			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualit	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and radio	logy	
Discip	Discipline				Facial Su	ırgery aı	nd Implan	tology	
Cours title			MEDICO-SURGICAL EMERGENCIES IN						
				DENTAL MEDICINE					
Respo	nsible	for lectu	re	Lectur	er Dr. M	itre Ilea	na		
Respo	nsible	for pract	ical	Assis.	Dr. Opris	Daiana .	Antoaneta	a Assis. Dr	. Opris Horia
activit	y			Octavia	an Assis.	Dr. Stoia	a Sebastia	n Assis. D	r. Tamas
				Tiberiu					
The fo	rmativ	e catego	ry of	DS					
the di	scipline	9							
Compulsory discipline			Compulsory						
**			/week	ho	urs/semes	ter		~	Type of
Year Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
5	2	2	4	28	56	41	125	5	E

Pre-	General and special anatomy – head and neck. Physiology.				
	1				
conditions	Physiopathology. General and dento-maxillary apparatus				
(Preliminary	semiology. Internal medicine. Pediatrics. Pharmacology. Dental				
conditions)	medicine anesthesia. Oral surgery.				
	The ability to analyze anatomical and clinical parameters in a				
	clinical case.				
	Critical analysis and laboratory test results interpretation.				
	Critical analysis of paraclinical explorations.				
	The correct filling of therapeutic prescriptions.				
Requisities for	Lectures will be held in a projection system – equipped				
lectures and	amphitheater				
practical activities	Laboratories with specific equipment for specific practical				
	activities				
	Offices equipped with dental units, patient wards, treatment rooms,				
	operating rooms.				

Professional competences	Acquiring theoretical and practical specialty-specific patient examination notions								
	Establishing an emergency diagnosis								
	• Knowledge of the first measures of treatment in medical and								
	surgical emergencies								
	• Knowledge of the techniques and maneuvers necessary for the								

	 treatment of medical emergencies The ability to identify and apply emergency treatment for accidents and complications which may appear in the dental medicine practice. Knowledge of the means of prevention for local accidents and complications of the general dentistry act. Acquiring drug administering knowledge. Acquiring theoretical and practical knowledge of patient monitoring means.
Transversal	Using the acquired notions in new contexts
competences	Applying theoretical notions in practical activity
	Establishing interdisciplinary correlations within the studied fields
	Developing efficient patient communication skills.
	Demonstrating a willingness for professional improvement by
	training analytic and synthetic thought processes
	Proving involvement in research activities, such as elaborating
	scientific articles.
General objectives	• This Course offers Vth year students of Dental Medicine in the
objectives	University of Dental Medicine theoretical knowledge about symptoms and making an emergency diagnosis of the complications which can
	arise in the dental office; the first measures of treatment in medical and
	surgical emergencies; knowledge of medicines, their effects and the
	risks of administering them, theoretical knowledge of anesthetic
	medicines; knowledge of technique's for administering medicine;
	listing general anesthesia techniques; patient monitoring; knowledge of
	risks and complications which can arise when administering
	intravenous sedatives.
	• The objective of practical seminars is acquiring airway
	disobstruction techniques knowledge; learning how to prepare medicine
	to be administered in emergencies and how to administer it; acquiring
	knowledge of the devices and materials used in the treatment of medical
	emergencies; learning how to perform disobstruction maneuvers, artificial ventilation, external cardiac massage on a mannequin and
	gaining knowledge of anesthetic drugs; medicine administering
	techniques; knowledge of general anesthesia techniques; patient
	monitoring; knowledge of sedation techniques and the risks and
	complications which can arise when administering intravenous
	sedatives.
Specific	• Knowledge of symptoms and emergency diagnosis for
objectives	complications which can arise in the dental office. The first measures of
	treatment in medical and surgical emergencies. Knowledge of the
	techniques and necessary maneuvers for the treatment of medical
	emergencies. Knowledge of drugs, their effects and the risks of
	administering them. Acquiring airway disobstruction techniques.
	Preparing the administering of drugs in emergency situations. Knowing the devices and materials used for the treatment of medical
	the devices and materials used for the treatment of medical

emergencies. Performing disobstruction, artificial ventilation and external cardiac massage maneuvers on mannequin. Listing the general anesthesia techniques. Knowledge of anesthetic drugs and the risks of their administration. Patient monitoring. Knowledge of the risks and complications which may appear when administering intravenous sedatives.

LECTURES					
Teaching	Lecture, Power-Point presentations, systematic interactive				
methods	presentation.				
Content	The state of emergency. Organizing the immediate medical emergency. Medicines used in an emergency important for the dentist				
	and classes, mechanism of action, dosage, indications and precautions / contraindications. General accidents in the dental office				
	2. Cardiorespiratory and cerebral resuscitation: stages of resuscitation, used medicine.				
	3. Cardiorespiratory and cerebral resuscitation: resuscitation technique, resuscitation in special situations.				
	4. Respiratory emergencies: notions of pathophysiology, acute respiratory failure, pulmonary embolism, asthma, acute angioedema, airway obstruction				
	5. Cardio-circulatory emergencies: notions of pathophysiology, angina pectoris, acute myocardial infarction, hypertensive crisis, hypotension, global cardiac insufficiency.				
	6. Cardio-circulatory emergencies: reminder of the notions of electrocardiography, rhythm disorders.				
	7. Comas: etiological and differential diagnosis. Comas: general coma treatment principles; emergency treatment of certain metabolic comas.				
	8. Shocks. Etiopathogenesis, classification, clinical manifestations				
	9. Emergency treatment of anaphylactic shock. Principles of emergency treatment in other forms of shock.				
	10. Emergency approach of polytrauma, cranio-maxillofacial trauma.				
	11. Hemostasis disorders (classification, etiopathology, clinical				
	picture, laboratory tests). Implications of hemostasis changes in dentistry.				
	12. Monitoring patients during the interventional period in dentistry. Complications of anesthesia in dentistry.				
	13. Incidents and complications of sedation techniques per os, iv and im in dentistry				
	14. Incidents and complications of inhalation sedation techniques and general anesthesia in dentistry				
	PRACTICAL ACTIVITIES				
Teaching methods	Power-Point presentations, interactive teaching.				
memous					

Practical	Scheduled interactive learning. Practical activities with the showcasing						
activity carried	and practising of first aid techniques and maneuvers on teaching models						
out by students							
Content	1. The emergency apparatus inside the dental office. The						
	emergency kit: materials and drugs.						
	2. Peripheral venous line placement. Drug administering notions.						
	Intravenous kit. Applying an intravenous kit.						
	3. The technique of intramuscular, subcutaneous, intradermal						
	injections. Medicines used urgently important to the dentist (classes,						
	mechanism of action, dosage, indications and precautions /						
	contraindications).						
	4. Non-instrumental airway disobstruction techniques. Knowing						
	the disobstruction maneuvers						
	5. Devices for performing airway disobstruction. Knowledge of						
	instrumental disobstruction maneuvers.						
	6. Mechanical airway disobstruction: using the oropharyngeal						
	airway, Robertazzi airway, laryngeal mask. Laryngoscopy. Tracheal						
	intubation probes. Performing tracheal intubation.						
	7. Special surgical maneuvers in severe emergencies						
	cricothyrotomy, tracheostomy.						
	8. Performing airway disobstruction and ventilation on						
	mannequin. Acquiring knowledge of the cardiac massage techniques.						
	Performing cardiac massage on mannequin.						
	9. General emergencies in the dental office: lipothymy, syncope,						
	convulsive accidents, allergic accidents.						
	10. Urgent approach to polytraumas, craniocerebral and						
	maxillofacial traumas.Emergency hemostasis. Emergency blood						
	vessel ligatures in oro-maxillofacial hemorrhage. Emergency wound						
	treatment. Antitetanic prophylaxis.						
	11. Hemostasis disorders (classification, etiopathology, clinical						
	picture, laboratory tests). Implications of hemostasis changes in						
	dentistry.						
	12. The differential diagnosis of shocks. Knowing the diagnostic						
	and therapeutic approach in patients with hemorrhagic or anaphylactic						
	shock. Knowing the diagnostic and therapeutic approach in patients						
	with hypoglycemic shock.						
	13. Differential diagnosis of metabolic comas. Differential						
	diagnosis: clinical death, cerebral death.						
	14. Monitoring patients during the interventional period in						
	dentistry. Complications of anesthesia in dentistry. Incidents and						
Diblio av l	complications of oral, iv and im sedation techniques in dentistry						
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	Septimiu Câmpian, Lucia Hurubeanu, Horațiu Alexandru Rotaru,						
	Simion Bran, Liana Crişan, Bogdan Crişan, Iuliu George						
	Moldovan, Cristiana Balog, Mădălina Anca Lazăr, Ioan Barbur,						
	Cristian Mihail Dinu, Sergiu Vacaras. Urgente medico-chirurgicale						

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	2020,		
Evaluation:	Written Exam	Practical Exam	Activity during the semester:
Percent of the final grade:	60%	40%	%

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca						
Facult	ty			Dental Medicine						
Doma	in of st	udy		Health	Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh			
Level	of cour	rse		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medicii	ne			
Depar	tment			6 Medi	cal specia	lties				
Discip	Discipline				Dermatology					
Cours	Cours title				DERMATOLOGY					
Respo	Responsible for lecture				Associate Profesor Dr. Ana Sorina Dănescu					
Responsible for practical				Associa	ate Profes	or Dr Aı	na Sorina	Danescu		
activit	t y									
The fo	ormativ	ve catego	ry of	DS						
the dis	the discipline									
Comp	Compulsory discipline			Compulsory						
		hours/week		ho	hours/semester Total Continue		G 11.	Type of		
Year	Year Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment	
5	2	1	1	14	14	22	50	2	Е	

Pre-conditions (Preliminary	Histology, Histopathology, Physiology,	
conditions)	Physiopathology, Semiology	
	Doing the anamnesis and physical exam	
Requisities for lectures and	NA	
practical activities		

Professional competences	 To recognize the skin lesion and establish the clinical diagnosis in dermatological diseases To recommend and interpret the investigations needed for the final diagnosis in dermatological diseases To recommend the correct treatment in dermatological disease and follow-up the therapy regarding efficiency and side effects
Transversal competences	 To have the ability to communicate with the patient To show preoccupation for professional improvement To integrate dermatological knowledge into general medical one and into research activities

General objectives	 To acquire knowledge about cutaneous pathology To integrate the theoretical and practical knowledge gained in the previous study years in the discipline profile 		
Specific	To recognize the elementary skin lesions		
objectives	To diagnose and treat the main dermatological diseases		

	LECTURES				
Teaching	Power point presentations				
methods					
Content	1. Introduction in dermatology				
	2. Viral infections				
	3. Bacterial infections				
	4. Fungal infections				
	5. Parasitic infections				
	6. Urticaria				
	7. Dermatitis				
	8. Acnee. Rosacea. Perioral dermatitis				
	9. Psoriasis. Lichen planus				
	10. Autoimmune bullous diseases				
	11. Benign cutaneous tumors				
	12. Malignant cutaneous tumors				
	13. Sexually transmitted diseases				
	14. Diseases of the oral mucosa				
	PRACTICAL ACTIVITIES				
Teaching	Case presentation (patients with various dermatological conditions)				
methods	Carrying out diagnostic and therapeutical procedures in the				
	dermatology field				
Practical	Anamnesis				
activity carried	Physical exam				
out by students	Skin examination				
	Performing diagnostic and therapeutic maneuvers specific to the				
	discipline				
Content	1. Dermatoscopy				
	2. Wood lamp examination				
	3. Criotherapy				
	4 Administration of systemic therapies				
	5. Fungal testing				
	6. Microscopy				
	7. Electrotherapy				
	8. Skin biopsy				
	9. Dressings				
	10. Prick testing				
	11. Patch testing				
	12. Phototherapy				
	13. Skin incisions and drainage				

	14. Administration of topical therapies			
Bibliography	 Richard B. Weller, Hamish J. A. Hunter, Margaret W. Mann. Clinical Dermatology. Fifth Edition, ISBN-13: 978-0470659526 Braun Falco, Dermatology, 3rd edition 			
Evaluation:	Written Exam Practical Exam Activity during the semester:			
Percent of the final grade:	60%	30%	10%	

Institu	ition fo	r gradua	ate and	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgr	aduate	studies		Cluj-Napoca					
Faculty				Dental Medicine					
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Odontology, Endodontics and Oral Pathology					
Cours	title			ODONTOTHERAPY					
Respo	onsible for lecture Sef lucr.dr. Radu Chisnoiu								
Respo	nsible	for pract	ical	Vacant Lecturer 9					
activit	y			Assist.	Dr. Pop I	Dan			
				Assist.	Dr Mariu	s Bud			
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline		Compulsory							
3.7			/week	ho	urs/semes	ter		G 11.	Type of
Year	Year Sem	Sem C LP/S C LP/S S	SI	Total	Credits	Assessment			
5	2	1	3	14	42	69	125	4	Е

Pre-conditions	Diagnosis of dental caries, techniques of restorative	
(Preliminary conditions)	treatments and knowledge of stages of endodontic treatment	
Requisities for lectures	Amphitheater with projection system	
and practical activities	Dental cabinets provided with units specific to the practical	
	activities on the patient	

Professional	• The ability to use the theoretical knowledge and practical skills of				
competences	restorative dentistry adequately and in context				
	• Knowing the tools for examining and preparing the various types of				
	cavities for direct and indirect restorations				
	• Knowing and choosing the best treatment plan by direct methods				
	according to the given clinical situation				

	 Biological orientation, selection of dental restoration materials, through appropriate techniques for each individual patient Developing the capacity of synthesis of the notion of aesthetic and functional restoration, in order to understand and restore the main functions of the dento-maxillary apparatus: mastication, swallowing, phonation, esthetic function Improving the ability to replicate the theoretical knowledge of cavity preparation and obturation Clinical, paraclinical diagnosis and appropriate treatment of outbreak disease Achieving the practical experience necessary for the complex restorations 		
Transversal	Use of assimilated notions in particular contexts, specific to each case		
competences	 Applying theoretical notions in practical work 		
_	• Complex treatment of the patient, establishment of interdisciplinary		
	correlations		
General	• Improving the knowledge about the positive, differential diagnosis of		
objectives	simple and complicated odontal lesions and about the possibilities of		
	odontal and endodontic treatment for complex case solving.		
Specific	Medical reasoning in conservative odontal therapy.		
objectives	• Comprehensive examination of the patient, establishing a complete and correct diagnosis and treatment plan.		
	• Assimilation of differential diagnosis notions and the conditions in		
	which it is realized.		
	Biological orientation, selection of odontonal restoration materials, by		
	appropriate individualized techniques for each patient.		
	Clinical, paraclinical diagnosis and appropriate treatment of outbreak		
	disease		
	Accidents, complaints, iatrogenes of odontal treatments.		
	Performing aesthetic treatments.		
	• Developing the ability to replicate the theoretical knowledge by		
	preparing the cavities and filling adapted to each clinical situation		
	Exercise of synthesis and bibliographic documentation		

LECTURES					
Teaching methods	Lecture, systematic, interactive exposure				
Content	1. Medical priciples in conservative odontal therapy.				
	2. Principles of minimally invasive dentistry.				
	3. Armamentarium for composite direct restoration. Dental matrix				
	systems				
	4. Conservative preparation of cavities for composite direct restoration.				
	The role of ultrasounds in minimally invasive preparation.				
	5. Biological vision in odontal therapy. Choosing the right techniques,				
	instruments and restorative materials.				

	1		
	6. Aesthetic direct restorations of frontal teeth using modern composites.		
	Vanini Technique, restoration with Hri composite.		
	7. Restoration of enodontically treated teeth		
	8. The limits of conservative restorative dentistry. Direct versus indirect		
	restoration		
	9. Modern equipments and techniques used in odontal restorative		
	therapy. Semi-direct method of making the composite inlay.		
	10. Additive dentistry: indications, advantages, disadvantages, working		
	technique.		
	11. The use of Dental Operating Microscope in restorative dentistry.		
	12. Accidents and complications of odontal therapy.		
	13. External and internal whitening, indications, contraindications,		
	materials, work technique.		
	14. Replacement versus repairing of odontal restorations. Patient		
	monitorisation		
	PRACTICAL ACTIVITIES		
Teaching	Interactive discussions and demonstrations		
methods			
Practical	Dental examination and recording the information in file of the patient		
activity carried			
out by students			
Content	1. Dental examination and treatment plan, making the patient's record,		
	recording all data on cabinet patients book		
	2. Odonto-periodontal prophylaxis (scalling, professional dental		
	cleanning)		
	3. Morphofunctional restoration of dental structures.		
	4. Intraoperative injuries of endodontic treatment.		
	5. Endodontic retreatment		
	6. Limits of conservative endodontic treatment		
	7. Restoration of endodontically treated teeth		
	8. Aesthetic anterior restorations		
	9. Posterior restorations in class I and II cavities- particular situations		
	10. The use of new modern technologies for diagnosis and treatments.		
	11. Direct composite restoration of posterior teeth using "Stamp		
	technique".		
	12. Knowledge of the rational use of medication and materials in		
	conservative dental medicine		
	13. Diagnosis of odonto-periodontal infection and interpretation of		
	paraclinical examinations		
	14. Evaluating patients at risk in dental treatment.		
Bibliography	1.Jacques Lasfargues et Pierre Colon: Odontologie conservatrice et		
	restauratrice -une approche medicale globale ;Ed.CdP 2010 Wolters		
	Kluwer, France (2010)		
	2.Adrian Lussi; Markus Schaffner : Advances in RestorativeDentistry;		
1	Ed. Quintessence 2012		

Percent of the final grade:	70%	20%	10%		
	semester:				
Evaluation:	Written Exam Practical Exam Activity during the				
	stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021				
	6.Ecaterina Ionescu (coordinator): Manual pentru rezidențiat –				
	structure; Ed. Mosby 2016				
	5.Mount G.; Hume W.R.: Preservation and restoration of the tooth				
	Dentistry; Ed. Quinte	essence 2016			
	4.Summitt J.; Robbin	ns W.; Schwartz R.:	Fundamentals of operative		
	Lasfargues British Dental Journal volume 213 no. 11 dec 8 2012				
	initial caries lesions; A. Guerrieri, C. Gaucher, E. Bonte and J. J.				
	3.Minimal intervention dentistry:part 4. Detection and diagnosis of				

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Orthod	ontics				
Cours	Cours title			ORTH	ODONT	ICS AN	D DENT	O-FACIA	L
			ORTHOPAEDICS						
Responsible for lecture			Assoc. Prof. Dr. Dana Feștilă						
Responsible for practical			Assoc.	Prof. Dr.	Dana Fe	știlă			
activit	activity			Lecture	er Dr. Mir	cea Ghe	rgie		
	-			Assist.	Dr. Olim	pia Bunt	a		
				Assist.	Dr. Miha	ela Păstr	av		
				Assist. Dr. Ioana Colceriu-Şimon					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
***	2	hours/week	/week	hours/semester To it is a six			Type of		
Year	Sem	С	LP/S	C	LP/S	SI	SI Total Cree	Credits	Assessment
5	2	2	3,5	28	49	48	125	5	Е

Pre-conditions	Notions of pedodontics and dental radiology
(Preliminary conditions)	
Requisities for lectures	Amphitheater with a projection system
and practical activities	Laboratory with specific practical activities: Cabinet equipped
	with dental units

Professional	Capacity to present cases from theoretical knowledge	
competences	• Acquiring practical experience through the use of specialist instruments for executing the necessary stages in establishing an orthodontic diagnosis	
	• Acquiring necessary practical experience in utilising specialist instruments in the view of manipulating orthodontic appliances	
Transversal	Use of notions from new context	
competences	Application of theoretic notions in the practical activity	
	Establishing a interdisciplinary correlation	
General	• Knowledge of dento-maxillary anomalies and possibilities of	
objectives	treatment	
Specific objectives	Appropriation of knowledge about growth and development of the dento-maxillary apparatus	
	 Clinic and complementary examinations Remembering the clinical table for dento-maxillary anomalies and etiological factors implicated in its production Establishing a diagnostic and therapeutic plan Knowledge of objectives of treatments Knowledge of mobile orthodontic devices (classification, components, mode of action) Appropriation of practical knowledge for realizing the mobile 	
	 orthodontic devices Prophylaxis and interception of the dento-maxillary anomalies Practicing capacity for synthesizing documents bibliographic 	

	LECTURES		
Teaching	Lecture, systematic interactive exposure		
methods	Oral exposure, power-point presentation		
Content	1. Growth and development of the dento-maxillary apparatus		
	2. Evolution relation/order of normal occlusion		
	3. Clinical examination in orthodontics		
	4. Complementary exams: Study model, examine photostatic,		
	anthropologic		
	5. Radiologic examinations: methods of analysis of profile		
	teleradiographs		
	6. Orthodontic terminology classification and diagnostic of dento-		
	maxillary anomalies		
	7. Etiological and Pathogenesis of dento-maxillary anomalies		
	8. Dento-maxillary anomalies in the transversal plane		
	9. Dento-maxillary anomalies in the sagittal plane		
	10. Dento-maxillary anomalies in the vertical plane		
	11. Dental anomalies		
	12. Anomalies consisting of consecutive premature loss of temporary		
	and permanent teeth		
	13. Prophylaxis for dento-maxillary anomalies		

	14. Indications for treatment in dento-maxillary anomalies. Principals of			
	orthodontic treatments, types of mobile biomechanics devices			
	PRACTICAL ACTIVITIES			
Teaching	Interactive exercises on real and virtual supports (casts, pictures)			
methods	interactive energies on real and virtual supports (easis, precares)			
Practical	Examination and patient files			
activity carried	Taking patients impressions			
out by students	Exercises of recognising the teeth and occlusal relations, measurement			
	on the casts			
	Interpretation exercises of orthodontic photographs			
	Interpretation of radiological measurements			
	Reproducing data found from the clinical exam and complimentary			
	exam			
	Exercises of drawing mobile orthodontic devices			
	Exercises of applying mobile orthodontic devices			
	Exercises of activating mobile orthodontic device			
	Prophylactic orthodontic treatment			
	Reproducing knowledge accumulated and testing them			
Content	1. Clinical and functional examination of children with dento-maxillary			
	anomalies			
	2. Impression, orthodontic casts			
	3. Cast analysis, measurement			
	4. Examination of orthodontic photographs			
	5. Panoramic X-Ray analysis			
	Cephalometric analysis and interpretation			
	6. Establishing a diagnostic and a therapeutic plan 7. Completion of laboratory files with indications for the technician			
	7. Completion of laboratory files with indications for the technician			
	8. Check-ups, activation of the removable and functional orthodontic			
	appliances			
	9. Application of removable orthodontic devices and indications for			
	patients 10 Orthodontic periodic controls: activation of removable orthodontic			
	10. Orthodontic periodic controls: activation of removable orthodontic devices			
	11. Miogymnastic exercises12. Clinical cases Application of small measures of orthodontic			
	prophylaxis, interception and curative: exercises with a spatula, selective			
	shaving of temporary teeth. Temporary teeth extraction in an			
	orthodontic scope			
	13. Presentation of clinical cases			
	14. Presentation of clinical cases			
Bibliography	Lee W. Graber, Robert L. Vanarsdall, Jr., Katherine W. L. Vig ,			
Zionograpiij	Greg J. Huang, Orthodontics: Current Principles and Techniques			
	6 th Edition, Elsevier, 2016			
	2. William R. Proffit, Henry W. Fields, Brent Larson, David M.			
	Sarver. Contemporary Orthodontics, 6th Edition, Elsevier, 2018			
<u> </u>	January State of the State of t			

	3. Martyn Cobourne	e Andrew DiBiase. Handb	ook of Orthodontics,	
	Elsevier, 2015			
	4. Thilander Birgit,	4. Thilander Birgit, Bondemark Lars Bjerklin. Essential Orthodontics,		
	Willey and Sons,	Willey and Sons, 2017		
	5. Ionescu Ecaterina, Manual pentru rezidentiat, vol 2, Editura			
	Universitara "Carol Davila", Bucuresti, 2021			
	6. Pop Silvia Izabella, Pacurar Mariana, Bratu Cristina, Olteanu			
	Cristian, Aparate ortodontice, University Press, 2018			
Evaluation:	Written Exam	Practical Exam	Activity during the	
			semester:	
Percent of the	50%	40%	10%	
final grade:				

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Periodo	ontology				
Cours	Cours title			PERIC	DONTO	LOGY			
Responsible for lecture			Assoc. Prof. Dr. Andrada Soanca						
Responsible for practical			Lecturer Dr. Stefan Adrian Petrutiu						
activit	y			Assist. Dr. Daniela Condor					
				Asist. Dr.Cosmin Cioban					
				Asist. Dr.Cristina Micu					
				Asist. Drd.Diana Oneț					
The fo	rmativ	ve catego	ry of	DS					
the dis	scipline	e							
Compulsory discipline			Compulsory						
***	Sem	hours	/week	ho	urs/semes	mester	G 11.	Type of	
Year		С	LP/S	С	LP/S	SI	Total	Credits	Assessment
5	2	2	3,5	28	49	48	125	5	Е

Pre-conditions	Histology, immunology, physio-pathology, microbiology, internal
(Preliminary	medicine, scientific research methodology
conditions)	Clinical studies analysis
Requisities for	Amphitheater with projection system/ Online virtual system
lectures and Preclinical laboratory with preclinical study models and audit	
practical activities	system
	Dental units
	Application of the internal rules and regulations

Professional Ability to use correctly the periodontal terminology competences Ability to perform a full periodontal examination Ability to make a correct diagnose and prognostic • Ability to conceive a treatment plan and monitor its results • Ability to perform supra and sub-gingival scaling manual or mechanical • Knowledge of the periodontitis general risk factors, their etiological and prophylactic role in periodontitis, the importance of collaboration with the general physician • Knowledge of periodontal surgery techniques and the capability to explain their necessity • Ability to collaborate with the periodontist for managing complex interdisciplinary treatments • Ability to analyze the results of periodontal therapy and to manage the supportive periodontal therapy • Ability to synthesize in an interdisciplinary manner the clinical data in correlation with the complementary investigations (histological, immunological, biochemical, physio-pathological, microbiological) to assure a correct treatment plan • Ability to use specific periodontal instruments according to standard international protocols Transversal Ability to communicate with the periodontal patient regarding the competences periodontal disease • Ability to motivate and educate the periodontal patient regarding the self-performed plaque control • Ability to communicate with other professionals for the management of the periodontal systemic factors and conditions Application of the theoretical knowledge in the practical activity • Ability to use the digital tools for patient awareness Developing the skills and motivation for continuous professional development General At the end of the activity the student will be able to properly evaluate objectives the periodontal status of the patient and to differentiate the healthy and affected periodontium. The student will be familiar the principles of the evidence-based treatment Specific Provide the theoretical knowledge about periodontal entities objectives semiology and risk factors. Provide theoretical knowledge regarding the base principles of periodontal treatments and also the therapeutically protocols for different forms of disease. • Provide examination protocols and specific periodontal treatment plans based on the theoretical knowledge Provide the necessary knowledge for clinical application of the above notions • Developing the practical abilities for using the examination and

 specific treatment protocols by exercising on periodontal models and afterwards in the clinical office. Developing the ability of synthetizing and communicating with other specialties in order to manage the periodontal affected cases in proper
conditions
Exercising the ability of scientific documentation

	LECTURES			
Teaching	Lectures, systematic and interactive presentations, Power point /			
methods	oral presentations			
Content	1. Initial therapy in periodontitis management. Subgingival scaling			
	and root planing, efficiency and limitations			
	2. Ultrasonic subgingival scaling. Manual subgingival scaling			
	3. Possibilities of residual pockets reduction after initial therapy.			
	Access flap therapy			
	4. Basic principles of periodontal wound healing. Periodontal			
	regeneration			
	5. Instruments used in periodontal surgery. Postoperative care. Bone			
	substitutes used in periodontal regeneration			
	6. Treatment options for infra-bony defects. Periodontal host			
	modulation therapy			
	7. Systemic antibiotic therapy in periodontitis. Local antibiotic			
	therapy in periodontitis.			
	8. Place and role of antiseptic therapy in periodontal therapy.			
	Chlorhexidine			
	9. Supportive periodontal treatment. Management of recurrences.			
	Re-evaluation phase. Prognosis evaluation			
	10.Etiology of gingival recession			
	11. Preventive and curing treatment of gingival recessions			
	12. Prosthetic-perio inter-relationship. Treatment options. Provisionals			
	in periodontal treatment			
	13.Temporary and permanent splinting of mobile teeth.			
	14.Biologic width. Possibilities to maintain and restore.			
	PRACTICAL ACTIVITIES			
Teaching	Power point presentation of working protocols, presentation of the			
methods	instruments and materials used, presentation of the application			
	technique / procedure realization			
Practical	Realization and repetition of the maneuvers on preclinical models.			
activity carried	Assisting and/or realization of clinical procedure.			
out by students	1 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Content	1. Manual sub-gingival scaling with Gracey curettes (pre-clinical			
	encounter)			
	2. Manual and mechanical sharpening of Gracey curettes (pre-			
	clinical encounter)			
	3. Subgingival scaling and root planing on anterior teeth (clinical			

Evaluation:	Blackwell, Munksgaa Written Exam	ard, 2021(ISBN: 978-1-119 Practical Exam	0-43888-5) Activity during the
	Clinical Periodontolo	ogy and Implant Dentistr	ry, 7th Edition, Wiley-
		ndh T, Giannobile WV,	
	-	eriodontology, 13th Edition	
	_	2011 (ISBN 978-973-693- ei H, Klokkevold PR, Car	,
		ă A. Clinical manual of p	22 -
		(ISBN 978-973-693-902-0	
		Parodontologie 1. Noțiuni	
		(ISBN 978-973-693-897-	
Bibliography	1. Soancă A, Roman A. Concepts in Periodontal Therapy. Ed Med Univ		
	encounter)	rgical field in periodontol	ogy (chincai
	_	d disinfection of periodont	
	(clinical encounter)		
		bile teeth using fiber reinfo	orced composites
	composites (preclini	cal encounter)	
		bile teeth using fixe prosth	
		a crown lengthening therap	ov (clinical encounter)
	therapy (clinical end		of pocket reduction
	encounter) 10. Assisting on	a periodontal regenerative	or nocket reduction
		of sites with biological wi	idth invasion (clinical
		ervation chart (clinical enc	
		nination of gingival recessi	· •
		gingival recessions (pre-cl	linical encounter)
	encounter)	of focul fisk factors of per	iodontitis (eninear
	encounter) 6. Management	of local risk factors of per	iodontitis (clinical
	_	of local risk factors of per	iodontitis (preclinical
	encounter)		
	4. Subgingival s	scaling and root planing on	posterior teeth (clinical

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Department				4 Prosthetics and Dental materials						
Discipline				Prosthetic Dentistry						
Cours	Cours title				PROSTHETIC DENTISTRY					
Responsible for lecture				Lecturer Dr. Cecilia Bacali						
Respo	nsible	for pract	ical	Dr. Ba	cali Cecil	ia				
activit	t y			Dr. Isp	as Ana					
				Dr. Craciun Antarinia						
			Dr. Duncea Ioana							
			Dr. Manziuc Manuela							
				Dr. Tis	Dr. Tisler Corina					
The formative category of			DS	DS						
the dis	the discipline									
Comp	Compulsory discipline			Compulsory						
***	G	hours/we	/week	ho	urs/semes			~ ··	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
5	2	2	4	28	56	41	125	5	Е	

Pre-conditions	Knowledge related to the subjects studied in previous years:			
(Preliminary conditions)	Head and neck anatomy.			
_	Morphology and function of the dental-maxillary system.			
	Complete denture technology, occlusology.			
Requisities for lectures	Amphitheatre with projection system.			
and practical activities	Practices with dental units and appropriate equipment.			

Professional competences

- Learning of the specialized terminology and gaining the ability to use it appropriately and in context.
- Ability to perform the objective clinical examination of the complete edentulous patient, starting from knowing the head and neck anatomy, the skeletal bone of the visceral cranium, the mandibular mobilizing muscles, the periprosthetic muscles.
- Deepening the knowledge on the morphology of dental-alveolar arches (shape, occlusion curves, occlusal contacts), morphology of permanent teeth groups (cusps, fossils, marginal ridges, incisal edges, palatal faces), prerequisites for prosthetic restoration of total edentation
- Acquisition of the capacity to translate the concepts of centric relationship and maximum intercuspation position, as well as the relationship between them in the case of the total edentation, respectively the prosthetic restoration.
- Acquisition of notions on the mandibular rest position, vertical dimension of rest position and vertical dimension of occlusion, having as practical applicability the restoration of the optimal mandibular-jaw reports, an essential step in the treatment of total edentation.
- Understanding the medical reasoning of the treatment of total edentation, the logic behind the execution of the complete dentures and

r	
	the acquisition of the theoretical knowledge and of the practical skills
	related to it.
	• Development of the ability to synthesize, in an interdisciplinary way,
	the notions of anatomy, physiology, occlusology, in order to know and
	understand the way of restoring the morphology and the main functions
	of the dental-maxillary apparatus, with removable dentures.
	• Improvement of the capacity to transfer the acquired theoretical
	knowledge into the total edentation and its prosthetic treatment in the
	clinical activity.
	• Acquisition of the necessary practical experience for the use of specific
	instruments, used in clinical work, using the specific materials to each
	stage of work.
Transversal	• Correlations between the theoretical notions in the studied field.
competences	• Theoretical notions integration into an interdisciplinary context and the
	ability to use them in complex situations.
	Application of the theoretical knowledge in the clinical activity.
General	Basic notions regarding the clinical study of total edentation and the
objectives	basic principles of its prosthodontic treatment in order to restore normal
G 400	morphology and functionality of the dental-maxillary apparatus.
Specific	• Advanced clinical study of total edentation, highlighting the morpho-
objectives	functional particularities of the complete edentulous prosthetic field
	• Etiological factors of total edentation and the extent to which they
	contribute to the worsening of the clinical picture of the total edentation,
	including the augmentation of the prosthodontic treatment difficulty
	• Understanding the evolution and dysfunctional manifestations of the
	total edentation, respectively the importance of dentures in preventing
	the occurrence of major complications, affecting the general condition
	of the patient
	• Theoretical and practical notions related to the prosthodontic therapy of
	total edentation, a pathological condition of dento-maxillary system
	acquiring.
	• Assimilation of clinical notions of the prosthodontic treatment of the
	total edentation by direct exercise of the patient in the patient by
	observing the medical records performed during clinical stages and by
	thematic debates with the participation of the teaching staff and
	colleagues • Development of the corrective to emply the acquired theoretical nations in
	Development of the capacity to apply the acquired theoretical notions in the practical activity.
	the practical activity
	• Development of the capacity to synthesize assimilated theoretical notions
	Acquiring the methodology and skills of bibliographic documentation

LECTURES					
Teaching					
methods	Power-Point presentations, interactive exposure				

Content	1. The concept of total edentation: definition, generalities. Clinical study
	of total edentation: etiology, symptomatology, evolution, complications.
	2. Morphological and functional changes of dental-maxillary apparatus
	in the total edentulous patient: the bone, the oral mucosa, the muscles
	and the temporo-mandibular joint.
	3. Morpho-physiology of the maxillary and mandibular edentulous
	prosthetic field: support area (bone and mucosal substrate) and border
	area.
	4. Periprosthetic musculature and its role in the functionality of the
	dental-maxillary apparatus and in the retention of the complete denture.
	Physical, morphological and functional factors involved in the retention
	and stability of total prostheses.
	5. Functional areas of the maxillary edentulous prosthetic field.
	6. Functional areas of the mandibular edentulous prosthetic field.
	7. Clinical examination of the total edentulous patient: anamnesis,
	clinical examination, diagnosis, therapeutic indications, objectives.
	Clinical forms of the total edentulous prosthetic field.
	8. Impression materials used in the treatment of total edentation.
	Impression of the total edentulous prosthetic field: definition, principles
	and general objectives. Classification of impression techniques, phases,
	advantages, disadvantages.
	9. Preliminary impression: generalities, objectives, phases. Final
	impression: generalities, objectives, phases. Verification and adaptation
	of the custom tray.
	10. Final impression according to the specific aims. Different author
	techniques: Herbst, Schreinemakers, Devin.
	11. Determination and recording of jaw relations: theoretical
	considerations, clinical phases, classical methods and techniques.
	Specific notions related to the functional casts mounting in the
	articulator.
	12. Principles of frontal and lateral artificial teeth selection. General
	rules for placing the frontal and lateral teeth, occlusion in the frontal and
	lateral area.
	13. Trial denture extraoral and intraoral control. Application and
	adjustments of complete dentures in the oral cavity: control of occlusion,
	esthetics and phonetics. Recommendations for complete denture
	wearers.
	14. Pathology of the oral mucosa, specific for the full edentulous
	patient. Denture retouches, optimizations and repairs. Introduction in
	specific notions for different prosthetic techniques (immediate dentures, overdentures).
	PRACTICAL ACTIVITIES
Teaching	Case presentations. Interactive presentations. Discussions.
methods	Case presentations. Interactive presentations. Discussions.
Practical	Clinical procedures related to specific treatment steps. Case
activity carried	presentations.
activity cullicu	problemations.

out by students	
Content	1. Clinical examination of the total edentulous patient, anamnesis and
Content	examination file. Recommendations for specific medical investigations
	and paraclinical examinations (in case of associated diseases).
	2. Treatment plan elaboration. Patient approval of the treatment. Case
	documentation (photos, study casts). Appointments establishing.
	3. Pre prosthetic treatments in collaboration with other departments.
	4. Preliminary impression of the denture bearing area. Disinfection and
	impression control. Preliminary impressions transfer to the technician.
	5. Functional cast analysis. Functional limits of the prosthetic area.
	Indication for the technician for custom tray fabrication (partial and
	complete distancing, deretentivization, etc)
	6. Custom tray checking and adjustments to permit adequate conditions
	for the final impression. Border sealing in key areas and specific tests
	for marginal sealing checking.
	7. Final impression using different techniques, according to the clinical
	situation (simple or combined impressions, compressive or
	decompressive impressions, etc).
	8. Final cast analysis. Detection of the areas that need distancing.
	Maxillary cast engraving in the distal area.
	9. Extraoral and intraoral control of the bite blocks.
	10. Jaw relation registration. Vertical dimension at rest and vertical
	dimension of occlusion determination. Centric relation determination
	techniques.
	11. Extraoral and intraoral control of the trial dentures. Trial denture
	analysis before final denture fabrication.
	12. Application and adjustments of the final dentures in the oral cavity.
	Recommendations for wearing and maintenance of the denture.
	13. Final denture retouches, optimizations and repairs.
	14. Practical demonstrations of immediate denture and overdenture
	techniques.
Bibliography	1.Constantiniuc M, Bacali C. Clinic and prosthetic therapy of the full
	edentulous patient. Editura Medicală Universitară "Iuliu Hațieganu"
	Cluj-Napoca 2018.
	2. Constantiniuc Mariana . Terapia protetică a edentației totale. Editura
	Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca 2015.
	3.Constantiniuc Mariana. Edentația totală, noțiuni clinice. Editura
	Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca 2015.
	4.Zarb GA, Hobkirk JA, Eckert SE, Jacob RF. Prosthodontic
	treatment for edentulous patients. Complete dentures and implant-
	supported prostheses. 13th. Ed. St. Louis. Mosby, 2013.
	5.Driscoll CF, Golden WG. Treating the Complete Denture Patient,
	Wiley Blackwell, 2020.
	6.Forna NC . Protetică dentară, vol. 2, Editura Univers Enciclopedic,
	2011.
	7.Özkan YK. Complete Denture Prosthodontics: Planning and
	The second secon

	problem solving. Spri 9.Johnson T, Wood Wiley- Blackwell, 20 10.MacEntee MI. T Edition, Quintessence 11.Basker RM, Dav	nplete Denture Prostho inger, 2018. DJ . Techniques in com 12. The Complete Denture: e, 2014.	odontics: Treatment and applete denture technology. A Clinical Pathway. 2nd JM. Prosthetic Treatment 2011.				
Evaluation:	Written Exam Practical Exam Activity during the semester:						
Percent of the final grade:	50%	40%	10%				

Institution for graduate and				University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca							
Facult	t y			Dental Medicine							
Doma	in of st	udy		Health	Health						
Acade	mic de	gree		Dental	Dental Medicine in English						
Level	of cour	rse		I and II	- License	and mas	sters				
Qualif	fication	1		Doctor	of Dental	l Medici	ne				
Depar	tment			II- Con	servative	odontolo	ogy				
Discipline				Orthod	ontics						
Cours title				MEDICAL PRACTICE							
Responsible for lecture				Lecturer Dr. Ghergie Mircea							
Responsible for practical activity				Lecturer Dr. Ghergie Mircea							
The formative category of the discipline				DS							
Compulsory discipline				Compulsory							
	Sem	hours/wee	s/week	ho	urs/semes			G 11	Type of		
Year		С	LP/S	С	LP/S	SI	Total	Credits	Assessment		
5	2	0	40	0	120	40	160	2	С		

Pre-conditions (Preliminary conditions)	Knowledge of the anatomy and physiology of dento-maxillary system
Requisities for	Amphitheater with projection system
lectures and	Attendance is mandatory in a proportion of 100%.
practical activities	Adequate dress code – lab coat
	Filling in the summer medical practice notebook, in accordance
	with the curriculum

Professional	Medical practice activities in general medicine units
competences	Medical practice activities in dental medicine units
Transversal	Ability to work in a team during therapeutic procedures
competences	
General	• Acquiring the knowledge of the working of general medicine units and
objectives	dental medicine units
Specific	Knowledge of the working of general medicine units and dental
objectives	medicine units, the patients' and dental instruments' circuits
	• Learning and exercising the examination of patients, elaboration of the
	patient chart.
	• Learning notions regarding preparation of the instruments for
	disinfection and sterilization and regarding instrument sterilization.
	Knowledge of the specific instruments used in the medical unit where
	the student goes for summer medical practice.

	PRACTICAL ACTIVITIES						
Teaching	Lecture, systematic interactive exposure						
methods	Practical demonstration; interactive dialogue						
Practical	Oral exposure power-point presentation						
activity carried							
out by students							
Content	1. Dental office management – applications for the medical unit where						
	the practical activity is being performed.						
	2. Positive diagnosis and differential diagnosis in periodontology –						
	prophylactic procedures and conservative treatment						
	3.Prosthetic rehabilitation with implant support – case study						
	4 . Holistic approach of a patient in dentistry.						
	5 .Correlations between oral pathology and general pathology – a						
	minimum of 3 clinical cases						
	6 .Complex oral rehabilitation – objectives and treatment steps (a						
	minimum of 3 clinical cases).						
	7. Medical emergencies in dentistry						
Bibliography	1. Lee W. Graber, Robert L. Vanarsdall, Jr., Katherine W. L. Vig,						
	Greg J. Huang, Orthodontics: Current Principles and Techniques						
	6th Edition, Elsevier, 2016						
	2. William R. Proffit, Henry W. Fields, Brent Larson, David M.						
	Sarver. Contemporary Orthodontics, 6th Edition, Elsevier, 2018						
	3. Martyn Cobourne Andrew DiBiase. Handbook of Orthodontics,						
	Elsevier, 2015						
	4. Thilander Birgit, Bondemark Lars Bjerklin. Essential Orthodontics,						
	Willey and Sons, 2017						
	5. Ionescu Ecaterina, Manual pentru rezidentiat, vol 2, Editura						
	Universitara "Carol Davila", Bucuresti, 2021						
	6. Pop Silvia Izabella, Pacurar Mariana, Bratu Cristina, Olteanu						
	Cristian, Aparate ortodontice, University Press, 2018						

Evaluation:	Written Exam	Practical Exam	Activity during the
			semester:
Percent of the	%	100%	%
final grade:			

6TH YEAR

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Dental Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	·se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	Discipline			Maxillo	Facial Su	ırgery ar	nd Implan	tology	
Cours title				ORAL AND MAXILLO-FACIAL SURGERY					
Respo	Responsible for lecture Assoc. Prof. Cristian Dinu								
-			Vacancy position Prof. pos. 6						
activit	activity			Lecturer. Dr. Armencea Gabriel					
				Vacancy position Lecturer pos. 23					
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Comp	Compulsory discipline		Compulsory						
	hours/week		hours/semester		G 11	Type of			
Year	r Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	3	28	42	55	125	5	Е

Pre-conditions	General and head and neck anatomy. Physiology.				
(Preliminary	Pathophysiology.General and Dental-maxillary apparatus semiology.				
conditions)	Genetics. Internal Medicine. Pediatrics. Oral and Maxillo-facial				
	Surgery. Orthodontics and dentofacial orthopedics. Occlusology.				
	The ability to analyze the anatomo-clinical parameters while studying				
	a clinical case.				
	Critical analysis and interpreting of laboratory results and other				
	paraclinical explorations.				
	The ability to set the correct clinical diagnosis of orofacial				
	deformities.				
Requisities for	Amphitheater with projection systems				
lectures and	Laboratories that offer proper conditions for the practical courses to				
practical	unfold				
activities	Offices with dental chairs, treatment rooms, operating rooms				

Professional competences	 Appropriation of theoretical and practical notions regarding the patient's examination specific for this field. Acquiring theoretical and practical knowledge of Plastic and Reconstructive Oro-Maxillo-Facial Surgery: craniocerebral and craniofacial trauma, dentofacial deformities, congenital and acquired craniofacial malformations, complex craniofacial malformative syndromes, defect reconstruction in the cranio-maxillofacial region, temporomandibular joint pathology.
Transversal competences	 The use of the acquired knowledge in new contexts The implementation of theoretical notions in practical situations Establishing inter-disciplinary correlations between the studied subjects The ability to communicate with the pacient in an efficient way To show preoccupation for professional development by training the abilities of analytical and synthetical thinking To prove involvement in research activities by elaborating scientific articles
General objectives	 The course offers Sixth year students of the Dental Medicine Faculty theoretical notions concerning oral and maxillo-facial surgery: craniocerebral and craniofacial traumatology, dentofacial anomalies, congenital and acquired craniofacial malformations, complex craniofacial malformation syndromes, the reconstruction of tissued defects in the cranio-maxillofacial area. The practical courses aim to facilitate the assimilation of practical notions regarding the oral and maxillo-facial surgery: craniocerebral and craniofacial traumatology, dentofacial anomalies, congenital and acquired craniofacial malformations, complex craniofacial malformation syndromes, the reconstruction of tissue defects in the cranio-maxillofacial area.
Specific objectives	Assimilating the theoretical and practical notions regarding plastic and reconstructive cranio-maxillofacial surgery: craniocerebral and craniofacial traumatology, dentofacial anomalies, congenital and acquired craniofacial malformations, complex craniofacial malformation syndromes, the reconstruction of tissue defects in the cranio-maxillofacial area, the pathology of the temporomandibular joint.

	LECTURES				
Teaching methods	Oral presentations, Power-Point presentations				
Content	1. Cranio-cerebral Traumas: Etiology, Classification, Pathophysiology, Pathological Anatomy, Clinical Examination Open craniocerebral trauma – classification Craniocerebral wounds. Emergency treatment of wounds.				
	2. Intracranial lesions. Classification of craniocerebral trauma by Glasgow scale. Epicranial hematoma. Epidural hematoma. Subdural				

	_				
	hematoma. Intraparenchimatous hematoma. Intracerebral concussions				
	Mild, medium and severe cranio-cerebral traumas.				
	3. Fractures of the frontal sinus. Naso-orbital-ethmoid fractures. Cerebro-				
	spinal fluid fistulas: Etiology, Classification, Clinical and imaging				
	examination, Principles of treatment.				
	4. Cranio-maxillo-facial anomalies: Etiology, Classification of				
	anomalies, criteria for clinical diagnosis and imaging, Treatment of				
	alveolar-dental abnormalities. General principles of surgical treatment.				
	5. Anatomic mandibular prognathism: Etiology, clinical picture,				
	differential diagnosis, presurgical treatment, surgical treatment –				
	surgical interventions at the level of the mandibular condyle, ascending				
	mandibular ramus, angle and mandibular body				
	6. Anatomical mandibular retrognathism: Etiology, clinical picture,				
	differential diagnosis, pre-surgical treatment, surgical treatment –				
	surgical interventions at the level of the mandibular condyle, mandibular				
	ramus and body and at the level of the subapical alveolar process.				
	Bimaxillary osteotomies.				
	7. Open bite. Anatomical mandibular laterognathism: Etiology, clinical				
	picture, differential diagnosis, pre-surgical treatment, surgical treatment				
	8. The anomalies of the maxillary frontal group: superior proalveolia,				
	superior retroalveolia, supraalveolia, superior lateralsupraalveolia.				
	Maxillary retrognathism: Le Fort I, II, III surgical treatment. The				
	maxillary endognathism.				
	9. The maxillary prognathism. The contour anomalies of the chin:				
	progenia, retrogenia. Micrognathism with a decreased lower facial				
	height and eugnathic bite.				
	10. Excess contour anomalies of the body of the mandible. Anomalies				
	regarding the number: supernumerary teeth. Positional dental anomalies:				
	tipping and translation.				
	11. Cranio-maxillofacial malformations. Complex craniofacial				
	malformative syndromes. Congenital malformations of the face and				
	jaws. First and second branchial arch syndromes.				
	12. Congenital facial clefts. Etiology and classification. Anatomo-				
	clinical types. Clinical aspects of congenital facial clefts. Plastic surgical				
	treatment of the congenital facial clefts.				
	13. Reconstruction of head and neck defects. The surgical treatment of				
	the facial nerve paralysis.				
	14. The pathology of the temporomandibular joint.				
Toochir	PRACTICAL ACTIVITIES Device point presentations Interactive teaching				
Teaching methods	Power-point presentations. Interactive teaching.				
Practical	Interactive teaching Practical courses with the participation of the				
activity carried	Interactive teaching. Practical courses with the participation of the students in the surgical treatment of oral and maxillo-facial pathologies.				
out by students	Case study, case presentations.				
Content	1. The evaluation of the patient with craniocerebral injuries.				
Content	2. The review of the lesions in a patient with craniocerebral injuries.				
	2. The review of the resions in a patient with cramocereoral injuries.				

- 3. Case presentations in patients with frontal sinus fractures and in patients with naso-orbito-ethmoidal fractures.
- 4. Case reports in patients with cranio-maxillofacial anomalies. Presentation of the general principles of treatment.
- 5. Case presentation sagittal dento-facial anomalies.
- 6. Discussing the treatment steps for patients with dentofacial anomalies (diagnosis, orthodontic treatment, preoperative planning, surgical treatment)
- 7. Case presentation transversal dento-facial anomalies.
- 8. Case presentation vertical dento-facial anomalies.
- 9. Case presentation the treatment of dento-facial anomalies using osteodistraction.
- 10. Case presentation labio-maxillo-palatine clefts.
- 11. Discussing the complex treatment methods (surgical, orthodontic, phoniatric).
- 12. Case presentation labio-maxillo-palatine clefts. Suture removal after plastic surgery of the lip.
- 13. Case presentations temporomandibular joint pathology.
- 14. Case presentations microsurgical reconstruction for bone and soft tissue defects of the head and neck region.

Bibliography

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- 3. Raymond J. Fonseca, H. DexterBarber, Micahel P. Powers, David E. Frost, Oral and Maxillofacial Trauma, Elsevier 2013.
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- 9. Baker S.R.: Microsurgical reconstruction of the head and neck, Churchill Livingstone, New York, 1989.
- 10. May M., Schaitkin B.M.: Facial Paralysis. Rehabilitation Techniques, Thieme, New York, 2003.
- 11. Bucur A. et al., "Compendiu de Chirurgie oro-maxilo-facială" vol. I si II Q Med Publishing, 2009.
- 12. Al. Bucur, Gr. Băciut, M. Surpățeanu, sub redacția, Managementul

	afecțiunilor ch	irurgicale oro-maxilo	-faciale, 2012, Editura					
	Didactică și Pedagogică, București, ISBN 978-973-30-3136-9							
	13. Reyneke J.P. Essentials of Orthognathic Surgery. Quintessence							
	Publishing, 2003	Publishing, 2003.						
	Written Exam Practical Exam Activity during the							
Evaluation:	Written Exam	Practical Exam	Activity during the					
Evaluation:	Written Exam	Practical Exam	Activity during the semester:					
Evaluation: Percent of the	Written Exam 50%	Practical Exam 50%	ı					

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental Medicine					
Doma	in of st	udy		Health	Health				
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	line			Maxillo	Facial Su	ırgery ar	nd Implan	tology	
Cours title				DENT	AL IMPI	LANTO	LOGY		
Responsible for lecture			Prof. Dr. Bran Simion						
Responsible for practical			Vacancy position Assoc. Prof. pos. 13						
activity				Lecturer Dr. Crişan Bogdan					
				Assist. Dr. Manea Avram					
				Assist. Opriș Horia					
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline		Compulsory							
	~	hours	/week	ho	urs/semes	ter		a	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	3	28	42	55	125	5	Е

Pre-conditions	Dental-maxillary apparatus anatomy. Dental-maxillary apparatus			
(Preliminary	physiology. Pathophysiology. Dental anesthesia. Oral and maxillo-			
conditions)	facial surgery. Oral Pathology. Periodontology.			
	The ability to analyze the anatomo-clinical parameters while studying a clinical case.			
	The ability to set the correct clinical diagnosis in the oro-maxillo-			
	facial field.			
	Critical analysis and interpreting of laboratory results and other paraclinical explorations.			
	Practical abilities in performing local and loco-regional nerve blocks			
	in the maxillo-facial region.			
	Practical abilities of assisting in oral surgery interventions.			
Requisities for	Location for course unfolding – amphitheater with projection			

lectures and	systems
practical activities	Laboratories that offer proper conditions for the practical courses to
	unfold
	Offices with dental chairs, treatment rooms, operating rooms

Professional	Appropriation of theoretical and practical notions regarding the
competences	patient's examination specific for this field.
	Basic knowledge on dental implants.
	Acquiring knowledge of diagnosis in oral and maxillo-facial
	implantology.
Transversal	The use of the acquired knowledge in new contexts.
competences	• The implementation of theoretical notions in practical situations.
_	• Establishing inter-disciplinary correlations between the studied subjects.
	• Gaining the ability to communicate efficiently with the patients.
	To demonstrate concern for constant professional improvement by
	training the analytical and synthetical thinking. Taking part in research.
General objectives	 The course offers Sixth year students of the Dental Medicine Faculty theoretical notions concerning oral implants. It provides knowledge of oral and maxillo-facial implantology diagnosis, dental implant components, surgical protocols, bone augmentation for oral implantology, dental implant maintenance. The practical courses' objective is to teach practical aspects concerning the implant's parts, diagnosis in oral and maxillo-facial implantology, surgical protocols, bone augmentation and reconstruction, dental implant maintenance.
Specific	Studying basic notions concerning oral implants.
objectives	Acquiring knowledge of diagnosis in oral and maxillo-facial
	implantology.
	• Studying the implant's parts.
	• Implant insertion stages.
	Bone augmentation and reconstruction.
	Dental implant maintenance.
L	1 F

	LECTURES				
Teaching	Lecture, Systematic and interactive explanations. Oral				
methods	presentations, Power-Point presentations.				
Content	1. Introduction. History. Rationale for implants. Nomenclature				
	2. Prosthetic options. Anatomic bases. Bone physiology and				
	metabolism.				
	3. Medical evaluation. Diagnosis evaluation of the oral implantology				
	patient.				
	4. Radiological diagnosis. Bone types. Classification.				
	5. Occlusal evaluation in oral implantology.				
	6. Prosthetic evaluation in oral implantology. Totally and partially				
	edentulous arch classification.				

	7 "Overdentime" themenouties entions Destantes accident							
	7. "Overdenture" therapeutic options. Posterior maxillary region							
	treatment options. 8. Biomaterials. Clinical biomechanics.							
	9. Peri-implant tissues.							
	10. Augmentation and restoration of the edentulous ridge.							
	11. Root form implants. Progressive bone loading.							
	12. Bone density – influence on the treatment plan. Autogenous bone							
	grafts.							
	13. Screw-retained and cement-retained implant supported prosthetic							
	restorations. Occlusal aspects.							
	14. Implant and implant supported dentures maintenance.							
T	PRACTICAL ACTIVITIES							
Teaching	Interactive teaching.							
methods Practical	Interpretive teaching Dreatical accuracy that consist of presenting and							
	Interactive teaching. Practical courses that consist of presenting oral implantology patients, dental cast study, x-ray study, patient							
activity carried	consultation, assisting in surgical interventions.							
out by students Content	1. Dental cast and x-ray study of the bone support in oral implantology.							
Content								
	2. Knowing how to use implantology kits 2. Dental model study of different types of adentation							
	3. Dental model study of different types of edentation.4. Implant choice depending on the type of edentation (Misch and Judy							
	classification).							
	5. Using the implant kit for applying endosseous implants in the visceral skull (mandible)							
	skull (mandible). 6. Using the implant kit for applying endosseous implants in the							
	o. Using the implant kit for applying endosseous implants in the visceral skull (maxilla).							
	7. Sinus lift options – skull study.							
	8. Lateralization technique and inferior alveolar nerve transposition – skull study.							
	9. Learning impression techniques for implant supported prosthetic							
	restorations.							
	10. Inter-maxillary relation determination based on functional occlusion							
	principles.							
	11. Acquiring the use of the face-bow in oral implantology.							
	12. Dental implant loading.							
	13. Caring for patients with oral implants.							
	14. Indications and counter indications in oral implantology.							
Bibliography	1. Data bases: Pubmed, Medline, Embase, Science Direct, WoS							
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	and Maxillofacial Surgery, DOI:10.1002/9781118704493, John							
	Wiley & Sons Inc. 2012.							
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Percent of the final grade:	33,3%	33,3%	33,3%			
	semester:					
Evaluation:	Written Exam	Practical Exam	Activity during the			
	Treatment Planning to Guided Surgery, Springer, 2021.					
	8. Galante JM, Rubio NA. Digital Dental Implantology. From					
	editia a 4-a, Editura Elsevier, 2020.					
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	Implantology, El	sevier, Mosby, St. Louis,	USA, 2017.			
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	and Treatment, 2	, John Wiley & Sons Inc.	2016.			
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		gart: Thieme; doi:10.1055	<u>C</u>			
	Disease and Trea	tment: Prevention-Diagn	osis–Management. ed.			

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	Faculty			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	:se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Orthod	ontics				
Cours title			ORTH	ODONT	ICS AN	D DENT	O-FACIA	L	
			ORTHODONTICS						
Responsible for lecture		Assoc. Prof. Dr. Dana Feștilă							
Responsible for practical			Assoc. Prof. Dr. Dana Feștilă						
activit	activity			Lecturer Dr. Mircea Ghergie					
-			Assist. Dr. Olimpia Bunta						
				Assist. Dr. Mihaela Păstrav					
				Assist. Dr. Ioana Colceriu-Şimon					
The fo	rmativ	e catego	ry of	DS					
the dis	the discipline								
Compulsory discipline		Compulsory							
			hours/week		hours/semester			Type of	
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
6	1	2	3,5	28	49	48	125	5	Е

Pre-conditions (Preliminary	Notions of orthodontics and dental radiology
conditions)	
Requisities for lectures and	Amphitheater with a projection system
practical activities	Laboratory with specific practical activities: Cabinet
	equipped with dental units

Professional	Capacity to properly use speciality terms						
competences	Knowing the morphology of various groups of teeth						
competences							
	Knowing the morphology of the dental arches						
	Acquireing notions of norlam oclusion						
	Acquireing general information about the reference positions of the maxilla and mandible : centric relation, posture, habitual bite						
	<u>-</u>						
	Acquiring practical experience through the use of specialist instruments						
	for executing the necessary stages in establishing an orthodontic						
	diagnosis						
	Acquiring necessary practical experience in utilising specialist						
	instruments in the view of manipulating orthodontic appliances						
Transversal	Use of notions from new context						
competences	Application of theoretic notions in the practical activity						
	Establishing a interdisciplinary correlation						
General	Knowledge of dento-maxillary anomalies and possibilities of treatment						
objectives	, , , , , , , , , , , , , , , , , , ,						
Specific	Appropriation of knowledge about growth and development of the						
objectives	dento-maxillary apparatus						
	Clinic and complementary examinations						
	Remembering the clinical table for dento-maxillary anomalies and						
	etiological factors implicated in its production						
	Establishing a diagnostic and therapeutic plan						
	Knowledge of objectives of treatments						
	Knowledge of mobile orthodontic devices (classification, components,						
	mode of action)						
	,						
	Appropriation of practical knowledge for realizing the mobile orthodontic devices						
	Prophylaxis and interception of the dento-maxillary anomalies						
	Practicing capacity for synthesizing documents bibliographic						

	LECTURES						
Teaching	Lecture, systematic interactive exposure						
methods	Oral exposure, power-point presentation						
Content	1. Functional ethiological factors of the orthodontic anomalies						
	2. Definition and classification of functional appliances. Principles of						
	action. Miofunctional appliances						
	3. Inclined planes: definition, classification, action. Types of inclined						
	planes						
	Indications						
	4. Inhibition functional appliances: indications, action						
	5. Activator and monoblock : description, indications, actio						
	6. Balters Bionator: description, indications, action						
	Frankel appliances: description, indications, action						
	7. Twin Block : description, indications, action. Clear aligner/						

	Tanicalian						
	Invisalign						
	8. Fixed appliances: history, advantages, disadvantages, components						
	9. Treatment phases of the fixed technique; objectives and means of						
	obtaining them						
	10. Anchorage: means of obtaining orthodontic anchorage						
	11. Extra oral forces: classification, components, action, indications						
	12. Relapse and retention – causes of relapse, theories of retention;						
	retention appliances						
	13. Adult orthodontic treatment : pre prosthetic, pre surgical treatments						
	14. Surgical methods associated to the orthodontic treatment						
	PRACTICAL ACTIVITIES						
Teaching	Interactive exercises on real supports						
methods	Recognizing teeth and occlusion. Measurements						
	Facial examination on virtual support						
	Interactive exercises on real and virtual supports (casts, pictures)						
Practical	Examination and patient files						
activity carried	Examination and measurement on casts						
out by students	Examination of pictures						
	Examination of radiographs						
	Conclusions of examination						
	Drawing exercises						
	Application and use of the orthodontic appliances exercises						
	Activation of the removable and functional orthodontic appliances						
	exercises						
	Demonstrations						
	Orthodontic extractions						
	Prophylaxis						
	Synthesis of acquired information and testing						
Content	1. Diagnosis: clinical examination and patient history						
	2. Diagnosis: cast study						
	3. Diagnosis: photostatic study						
	4. Diagnosis: radiological examination						
	5. Treatment planning						
	6. Establishing the design of the orthodontic appliance						
	7. Application and use of the orthodontic appliances						
	8. Check-ups, activation of the removable and functional orthodontic						
	appliances						
	9. Muscle gymnastics						
	10. Orthodontic extractions						
	11. Clinical cases						
	12. Clinical cases						
	13. Clinical cases						
	14. Clinical cases						
Bibliography	1. Lee W. Graber, Robert L. Vanarsdall, Jr., Katherine W. L. Vig,						
Divilography	Greg J. Huang						
	Greg J. Huang						

Percent of the final grade:	50%	40%	10%			
	semester:					
Evaluation:	Written Exam Practical Exam Activity during the					
	Cristian, Aparate	Cristian, Aparate ortodontice, University Press, 2018				
	7. Pop Silvia Izabel	la, Pacurar Mariana, Bratı	ı Cristina, Olteanu			
	Universitara "Car	Universitara "Carol Davila", Bucuresti, 2021				
	6. Ionescu Ecaterina, Manual pentru rezidentiat, vol 2, Editura					
	Willey and Sons,	.	,			
	· ·	Bondemark Lars Bjerklin	. Essential Orthodontics,			
	Elsevier, 2015		, , , , , , , , , , , , , , , , , , , ,			
		e Andrew DiBiase. Handb				
		Sarver. Contemporary Orthodontics, 6th Edition, Elsevier, 2018				
	Elsevier, 2016 3. William R. Proff	it, Henry W. Fields, Brent	Larson David M			
		rrent Principles and Tech	niques 6th Edition,			

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discipline			Odonto	ology, End	dodontic	s and Ora	l Patholog	y	
Cours title			ORAL PATHOLOGY						
Responsible for lecture			Lecturer Dr. Rotaru Doina						
Responsible for practical			Assiste	nt Drd R	usnac M	ara			
activity			Assiste	nt Drd.D	obrota D	Diana			
-			Assiste	nt Dr. Bu	d Marius	S			
The fo	rmativ	e catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
37	N/ C		/week	ho	urs/semes	ter			Type of
Year	Year Sem	С	LP/S	C	LP/S	SI Total	Credits	Assessment	
6	1	2	1,5	28	21	26	75	3	Е

Pre-conditions	The anatomy of head and neck notions		
(Preliminary			
conditions)			
Requisities for	Amphiteater with projection system		
lectures and	Students will not be present at practical activities with		
practical activities	their		

mobile phones on. Also, phone conversations will not be tolerated during class or, students leaving the course to take over personal calls. It is prohibited consumption of food and drinks during

courses / practical activities. It will not be tolerated the delay to calls. It is prohibited consumption of food and drinks during

courses / practical activities. It will not be tolerated the delay to practical activities or the course, because it proves to be disruptive towards the learning process.

Laboratories with specific practical activities

Each student must complete their portfolios and the skills notebook with all the specifics

(Alternatively - offices with dental units for clinical disciplines, salons, intervention halls for surgical disciplines).

Professional
competences

- The ability to use the theoretical and practical notions of oral pathology
- adequately and in context;
- Knowing the tools for examining patients with different types of
- disorders in the field of oral pathology;
- Knowing and choosing the examination methods, complementary
- examinations and treatment, individualized, according to the given
- clinical situation:
- examinations and treatment, individualized, according to the given
- clinical situation:
- Biological orientation, selection of treatment protocols for each individual patient;
- Developing the capacity of synthesis of the information obtained, developing the ability to establish a complete and complex diagnosis;
- Improving the ability to replicate the theoretical knowledge about diagnosis, differential diagnosis and treatment of disorders in the field of oral pathology;
- Achieving the practical experience necessary for the complex cases, with associated systemic disorders treatment of outbreak disease.

Transversal competences

- Use of assimilated notions in particular contexts, specific to each case;
- Applying theoretical notions in practical work;
- Complex treatment of the patient, establishment of interdisciplinary correlations.

General

• The knowledge of normal morphology and histological structure of the

objectives	oral mucosa, the defense mechanisms of the oral cavity, the basic lesions of the oral mucosa, the normal physiological variations and oral manifestations of systemic diseases.
Specific objectives	 To acquire the knowledge of normal oral mucosa aspect and the variations of the normal; To acquire the knowledge of risk factors in malignancy; Learning and detecting the predisposing factors with malignant potential, premalignant lesions and the main forms of onset of oral cancer. To perform the oncological preventive examination in the dental office. Learning the steps of developing the positive clinical, etiological and differential the evolving nature of the main diseases of the oral cavity lining; To develop the capacity to conduct the treatment of the oral mucous membrane disorders; Practicing synthesis capacity and bibliographic documentation.

	LECTURES			
Teaching	Lecture, systematic exposition, interactive; oral expositions,			
methods	presentations, Power-Point			
Content	 The object of Oral Pathology. The clinical and etiological classification. The elementary lesions. The variations of the normal and anomalies of unknown etiology of the oral mucosa. The patient examination and the oral pathology diagnosis. Aphthae. Isolated aphthae (basic lesion). Minor aphthae. Major aphthae. Herpetiform aphthae. Behcet's disease. Particular forms 			
	(Crohn's disease, haemorrhagic rectocolitis, haematological deficiencies).			
	4. Elements of diagnosis and differential diagnosis of oral ulcerations			
	5. Blistering disorders of the oral cavity. Herpes. Chickenpox. Shingles. Foot, hand and mouth disease. Herpangina.			
	6. Bullous conditions. The mechanism of bulla formation. Erythema multiforme. Stevens-Johnson syndrome. Lyell's syndrome. Pemphigus vulgaris. Bullous pemphigoid. Cicatricial pemphigoid.			
	7. White lesions. Normal and pathological keratinizaton. The classification of the white lesions. Leukoplakia. White lesions of irritative cause. White lesions associated with dermatological disorders: oral lichen planus, lupus erythematosus, dermatomyositis. White lesions of infectious etiology: chronic thrush, hairy leukoplakia, tertiary syphilis. Congenital and hereditary white lesions: white sponge naevus, Darier's disease. Other white lesions. 8. Pigmented lesions. Lentigo. Malignant melanoma. Pigmented naevi. Tattoos. Addison's disease. Peutz-Jeghers syndrome. Racial pigmentation. Vascular lesions. Kaposi's sarcoma. Diffuse mucosal pigmentation.			

	9. Premalignant lesions. Erythroplasia (erythroplakia). Speckled			
	leukoplakia. Idiopathic leukoplakia. Sublingual keratosis. Proliferative			
	verrucous leukoplakia. Smokeless tobacco-induced keratosis. Chronic			
	hyperplastic candidosis. Oral submucous fibrosis. Chronic actinic			
	cheilitis. Syphilitic leukoplakia.			
	10. Oral manifestations in some systemic and infectious diseases			
	(anaemias, leukaemias, lymphomas, haemorrhagic diseases, sarcoidosis,			
	Crohn's disease, lupus erythematosus, tuberculosis, syphilis).			
	11. Complications of topic and systemic drug treatment. Oral reactions			
	to drugs. Local reaction to drugs (chemical burns). Systemically			
	mediated reactions (lichenoid reactions, acute erythema multiforme,			
	toxic epidermal necrolysis), other drug effects (gingival hyperplasia,			
	oral pigmentation, dry mouth, oral ulcers)			
	12. Candidosis. Systemic mycoses. Xerostomia.			
	13. Tongue disorders. The sore tongue (ulcers involving the tongue,			
	glossitis, the sore, physically normal tongue, geographical tongue),			
	lingual varicosities, hairy tongue, median rhomboid glossitis.			
	14. Oral manifestations in HIV infection. Oral lesions in HIV/SIDA.			
	The doctor's role in monitoring patients. The prevention of HIV			
	infection in dental offices.			
	PRACTICAL ACTIVITIES			
Teaching	Presentations, Power Point, interactive teaching			
methods				
Practical	Patient examination, diagnosis, treatment and slides presentation.			
activity carried				
out by students				
Content	1. The elementary lesions. The variations of the normal and anomalies			
	of unknown ethiology of the oral mucosa.			
	2. The patient examination and the oral pathology diagnosis steps.			
	3. Aphthae. Clinical aspects. The patient investigation in regards to			
	aphthae.			
	4. Elements of diagnosis and differential diagnosis of oral ulcerations			
	5. Blistering disorders of the oral cavity. Clinical aspects. Elements of			
	diagnosis and differential diagnosis.			
	6. Summary of the:			
	6. Summary of the:elementary lesions,			
	elementary lesions,diagnostic steps in oral pathology,			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions.			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. Oral lichen planus. Lupus erythematosus. Clinical aspects. Diagnosis 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. Oral lichen planus. Lupus erythematosus. Clinical aspects. Diagnosis and differential diagnosis. Patient monitoring. 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. Oral lichen planus. Lupus erythematosus. Clinical aspects. Diagnosis and differential diagnosis. Patient monitoring. 8. Pigmented lesions. Clinical aspects. Elements of diagnosis and 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. Oral lichen planus. Lupus erythematosus. Clinical aspects. Diagnosis and differential diagnosis. Patient monitoring. 8. Pigmented lesions. Clinical aspects. Elements of diagnosis and differential diagnosis. 			
	 elementary lesions, diagnostic steps in oral pathology, ulcerative, vesicular and bullous lesions of the oral cavity. Exercises for the recognition and description of the lesions. 7. White lesions. Normal and pathological keratinization. Leukoplakia. Oral lichen planus. Lupus erythematosus. Clinical aspects. Diagnosis and differential diagnosis. Patient monitoring. 8. Pigmented lesions. Clinical aspects. Elements of diagnosis and 			

	laukonlakia Suhlingu	al karatosis Proliferative	a varrucouse laukonlakia		
	leukoplakia. Sublingual keratosis. Proliferative verrucouss leukoplakia. Smokeless tobacco-induced keratosis. Chronic hyperplastic candidosis.				
	Oral submucous fibrosis. Chronic actinic cheilitis. Syphilitic				
	leukoplakia.				
	10. Oral manifestations in some systemic and infectious diseases.				
	Clinical aspects. The dentist's role in patient monitoring and their				
	treatment.	ientist s fole in patient if	iomornig and then		
		topic and systemic drug t	reatment Clinical		
	aspects. Diagnosis. Di		reatment. Chinear		
		nic mycoses. Xerostomi	a Clinical aspects		
	Diagnosis. Differentia	•	a. Chinear aspects.		
		Glossodynia. Clinical as	enects		
			lesions in HIV/SIDA. The		
			ention of HIV infection in		
	dental offices.	oring patients. The preve	mion of the emicenon in		
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		ı Haţieganu Cluj Napoca			
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	4. Haţieganu Cluj N				
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Evaluation:	Cluj Napoca , 20 Written Exam	Practical Exam	A ativity during the		
Evaluation:	vv ritten Exam	Fractical Exam	Activity during the semester:		
Percent of the	50%	25%	25%		
final grade:	5070 2570 2570				
illiai gi aue:					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Depar	Department			4 Prosthetics and Dental materials					
Discip	line			Prosthetic Dentistry					
Cours	title			PROS	ГНЕТІС	DENTI	STRY		
Respo	nsible	for lectu	re	Lectur	er Dr. Isj	pas Ana			
Respo	nsible	for pract	ical	Lecture	er Dr. Ispa	as Ana A	ssist. Dr.	Crăciun A	Antarinia
activit	Assist. Dr. Manziuc Manuela								
The fo	The formative category of DS								
the di	scipline	9							
Comp	ulsory	ulsory discipline Compulsory							
***	a	hours	/week			G 11.	Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	3,5	28 49 73		150	6	E	

Pre-conditions (Preliminary conditions)	Knowledge of the teeth morphology and dental arches. Knowledge of technology to achieve the removable partial prosthodontics.
Requisities for lectures	Amphitheater with protection system
and practical activities	Dental offices with dental units

Professional competences Transversal competences	 Capacity to demonstrate selection and combination skills in theoretical and practical knowledge of designing partial removable dentures. Capacity to demonstrate cognitive skills and abilities on developing a treatment plan for removable partial denture. Capacity to demonstrate skills and abilities of working in a team, developing professional and ethical values; good communication skills, abilities in problem solving and making decisions.
General objectives	• A comprehensive understanding of the complex issues involved in the scientific basis of removable prosthodontics required to establish a good treatment plan for the edentulous patient.
Specific objectives	 Acquiring theoretical and practical knowledge related to the partial edentulous therapy. Knowledge of the components of the removable partial denture (RPD) and acrylic RPDs. Acquiring biomechanical knowledge of the removable partial denture and acrylic RPDs. Establishing a diagnosis and treatment plan for the removable partial denture. Performing the required clinical and laboratory procedures for ensuring an RPD. Surveying the diagnostic cast and performing the design of the removable partial denture on the diagnostic cast. Understanding the difference between a provisional acrylic removable partial denture and a removable partial denture. Practicing the synthesis and documentation capacity.

	LECTURES
Teaching	Systematic and interactive presentation, oral presentation, power
methods	point presentation, problem solving;
Content	1. Objectives and indications of prosthodontic treatment in removable
	partial denture. Preliminary examination of the partially edentulous
	patient.
	2. Final clinical examination of the partially edentulous patient.
	Diagnosis and treatment plan.
	3. Treatment plan. Objectives. Phases: pre-prosthetic and prosthetic
	treatment plan.
	4. The acrylic removable partial denture. Components of the acrylic
	RPD in relation to the clinical features: saddles and artificial teeth,
	palate plate, wrought wire clasp, acrylic clasp).
	5. The removable partial denture (RPD). Components of RPD: saddles
	and artificial teeth.
	6. Components of the removable partial denture (RPD): mandibular and
	maxillary major connectors.
	7. Components of the removable partial denture (RPD): direct retainer.
	Types and functions of direct retainers which are indicated for clinical
	situations.
	8. Cast clasp (circular clasps, Roach clasps, Ney clasps and particular
	clasps).
	9. Precision and semi-precision attachments. Classification of the
	attachments. Minor connector.
	10. Biomechanics of the removal partial denture. Possible movements of
	the removable partial denture.
	11. Principles of designing the metal framework by means of surveyor.
	Treatment plan for Kennedy class I edentulous arches.
	12. Design of RPDs in Kennedy class II edentulous arches and Kennedy
	class III edentulous arches and Kennedy class IV edentulous arches.
	Making the design of the RPD on the diagnostic cast.
	13. Clinical and laboratory steps for making an RPD: preliminary oral
	examination, final oral examination. Specific pre-prosthetic procedures:
	impression (unique functional impression and compressive functional
	impression), try-in of the framework and recording the relationships of
	occlusion.
	14. Try-in of the wax pattern. Transforming the wax pattern in the final
	denture. Try-in and adjustments of the denture. Monitoring the patients.
	Relining and rebasing.
m 1.	PRACTICAL ACTIVITIES
Teaching	Systematic presentation, discussions of the clinical cases,
methods	demonstrations of the prosthetics procedures, establishing the treatment
	plans.
Duo 04: 1	Knowledge seminars.
Practical	Clinical examinations;

Establishing of the prosthetics treatment plan; Performing of the prosthetic procedures which are involved in the				
Performing of the prosthetic procedures which are involved in the				
treatment steps of fixed and mobile prosthetics.				
1. Preliminary examination of the partially edentulous patient whose				
treatment plan can be a removable partial denture.				
2. Preliminary impressions for obtaining the diagnostic cast.				
3. Indications of supplementary examinations: radiographs and				
diagnostic casts.				
4. Pouring the cast and performing the diagnostic cast.				
5. Final examination of the partially edentulous patient. Establishing the				
comprehensive diagnosis. Developing an appropriate treatment plan for				
the partially edentulous patient.				
6. Mounting the casts on the articulator.				
7. Surveying the diagnostic cast (identifying the most favorable path of				
insertion, tripoding the cast, placing the height of contour, locating and				
making the undercut area).				
8. Designing the treatment plan.				
9. Presentation the necessary steps for performing the wax-pattern.				
10. Performing the wax-pattern of the RPD metal framework.				
11. Accomplishing the prosthetic procedures for the partially edentulous				
patients (class I K).				
12. Accomplishing the prosthetic procedures for the partially edentulous				
patients (class II K).				
13. Accomplishing the prosthetic procedures for the partially edentulous				
patients (class III K).				
14. Accomplishing the prosthetic procedures for the partially edentulous				
patients (class IV K).				
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traitement de l'édentement partiel par des prothèses partielles				
amovibles au châssis métallique" - "L'étude de l'édentement partiel				
- examen clinique du patient. Les éléments structuraux de la				
prothèse partielle au châssis métallique", vol.I, Edit. Medic. Univ.				
"Iuliu Haţieganu" Cluj- Napoca, 2019.				
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traitement de l'édentement partiel par des prothèses partielles				

	amovibles au châssis métallique"- "La biodynamique de la prothèse partielle amovible au châssis métallique. Les étapes cliniques dans la réalisation des prothèses partielles au châssis métallique", vol.II, vol.I, Edit. Medic. Univ. "Iuliu Haţieganu" Cluj- Napoca, 2019.			
Evaluation:	Written Exam	ritten Exam Practical Exam Activity during the semester:		
Percent of the final grade:	50%	50%	0%	

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental Medicine					
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualit	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Oral Re	ehabilitati	on			
Cours	title			ORAL REHABILITATION					
Responsible for lecture			Lecturer Dr. Anida Maria Băbțan						
Responsible for practical			Assist. Dr. Andreea Pop						
activit	y			Assist. Dr. Claudia Feurdean					
				Assist. Dr. Arin Sava					
The fo	rmativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline			Compulsory						
Year	Sem	hours	/week	ho	urs/semes	ter		Type of	
		C	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	3,5	28	49	73	150	6	Е

Pre-conditions	Knowledge of Odontology, Endodontics, Prosthetics,
(Preliminary	Periodontology, Maxillofacial Surgery, Implantology,
conditions)	Orthodontics, Internal Medicine, Pharmacology, Pathophysiology
	Knowledge in assessing one patients' health status, dental clinical
	oral cavity examination, diagnosis
Requisities for	Amphitheater with projection system/ Online system
lectures and	Dental offices with specific facilities for practical activities/ Online
practical activities	system

Professional competences	Acquisition of knowledge related to complex oral rehabilitation of patients. The holistic approach of the patient in the dental medicine office
	• The ability to decide on the opportunity of a dental operation in the context of the presence of a general condition.

	 The ability to evaluate the particularities of the dental treatment performed in patients with general conditions. The ability to evaluate the bidirectional interrelationship between 					
	general disorders and oral cavity pathology.					
	How the therapeutic decision is influenced in the dental medicine					
	cabinet by the metabolic and functional imbalances.					
	• The way in which the therapeutic decision is influenced in the dental					
	medicine cabinet by the complex chronic treatments of the patients.					
	Prevention of transmission of infectious diseases in the dental office					
Transversal	Integration of the concepts assimilated in Ododntology, Endodontics,					
competences	Prosthetics, Periodontology, Maxillofacial Surgery, Implantology,					
	Orthodontics, Internal Medicine, Pharmacology, Pathophysiology in the					
	context of complex oral rehabilitation					
	The application of theoretical notions in practical activity					
	Establishing interdisciplinary correlations in the studied fields.					
General	• Acquiring knowledge about complex oral rehabilitation of pacifications.					
objectives	• The peculiarities of dental treatment in patients with general condition.					
Specific	• The complex and interdisciplinary approach of the adult patient with					
objectives	special care needs in the context of curative and palliative treatments					
	• Specific training of the patient with comorbidities for the healing of the oral cavity.					
	· ·					
	• Establishing the opportunity of the dental treatments in the patient with general conditions.					
	• The specific training of the patient with associated conditions, the					
	optimum moment of intervention and the post-intervention follow-up.					
	• Complex rehabilitation of the functions of the dento-maxillary apparatus affected on stabilized dento-periodontal structures.					

	LECTURES					
Teaching	Lecture, systematic interactive presentation					
methods	Oral presentation,					
	Power-point presentation					
Content	1. Holistic approach to the patient in the dental office. Examination					
	form, case presentation, prescription / medical prescription, medical					
	documents required in dental practice. Staging treatment and the patient					
	follow-up. Examples through case presentations and medical					
	prescriptions in the dental office.					
	2.Oral rehabilitation of the patient with algo-dysfunctional syndrome of					
	the temporo-mandibular joint (TMJ). Specific treatment in oral cavity					
	opening limitation. Rehabilitation of oral cavity limitation diseased					
	patients.					
	3. The role of prostheses and surgical devices in complex oral					
	rehabilitation in patients with tumor or cystic oro-maxillo-facial					
	pathology.					
	4. Dental treatment particularities in patients with haematological					

	diseases: anemia syndromes, coagulation disorders, blood tumoral				
	disorders.				
	5. Dental treatments in pregnancy, postpartum and breastfeeding.				
	6. Dental treatments in acute and subacute SARS-COV-2 infected				
	patients. Oral rehabilitation in patients with post-COVID-19 syndrome				
	('Long COVID-19').				
	7. Dental treatments in patients with chronical lung disease: bronchial				
	asthma and COPD.				
	8. Dental treatment particularities in patients with sleep apnea.				
	Mandibular advancement devices.				
	9. Dental treatment particularities in patients with psychiatric disorders:				
	schizophrenia, psychosis, neurosis, depression and mental retard.				
	10. Oral rehabilitation in toxic dependent patients: alcohol, narcotics,				
	hallucinogenic. Toxic substances dependence.				
	11. Dental treatments in patients with endocrine disorders.				
	12. Dental treatment particularities in patients with immune disorders:				
	congenital and secondary (HIV) autoimmune disorders.				
	13. Dental treatment particularities in patients with immune disorders:				
	post-transplant status, dialysis, immunosuppressive medication (long-				
	term chemotherapeutical and corticosteroids).				
	14. Theory implement using complex oral rehabilitation case reports.				
Tanahina	PRACTICAL ACTIVITIES				
Teaching methods	Interactive teaching power-point presentations. Practical demonstration. The conception and writing of the medical prescription in the dental				
methous	office for the patient with oral pathology in the context of general				
	ailments.				
	difficits.				
Practical	Performing exooral, endooral and general, clinical examination.				
activity carried	Interactive discussions, power-point presentations. Practical				
out by students	demonstration. Performing the learned techniques				
Content	1. Examination of patients with general and dental conditions.				
	Anamnesis and objective local and general examination. The medical				
	prescription in the dental office for the patient with oral pathology in the				
	context of general comorbidities.				
	2. Preparation of the observation sheet. Establishing the diagnosis of				
	oro-dental diseases and the diagnosis of general disease.				
	3. Carrying out the treatment plan in the context of general comorbities.				
	4. Performing dental treatment in patients with algal dysfunction				
	syndrome and limitations of mouth opening. Stages for performing				
	surgical prostheses				
	5. Carrying out dental treatments, scaling, extractions and incisions in				
	suppurations in patients with haematological disorders.				
	6. Carrying out dental treatments, scaling, extractions and incisions in				
	suppurations in pregnancy, postpartum and breastfeeding.				
	7. Carrying out dental treatments, scaling, extractions and incisions in				
	suppurations in patients with respiratory diseases- COPD, asthma.				

- 8. Carrying out dental treatments, scaling, extractions and incisions in patients with sleep apnea
- 9. Performing dental treatments, scaling, extractions and incisions of suppurations in patients with psychiatric disorders schizophrenia, psychosis, neurosis, depression, mental retardation.
- 10. Carrying out dental treatments, scaling, extractions and incisions of suppurations in patients consuming toxins: alcohol, analgesics, sedatives, hallucinogenic substances.
- 11. Performing dental treatments, scaling, extractions and incisions of suppurations in patients with endocrine disorders.
- 12. Performing dental treatments, scaling, extractions and incisions of suppurations in patients with diseases of the immune system autoimmune diseases and HIV.
- 13. Performing dental treatments, scaling, extractions and incisions of suppurations in patients with diseases of the immune system post-transplant conditions, dialysis, immunosuppressive medication-chemotherapy, long-term corticotherapy.
- 14. Practical examination-case presentation

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	U	of Asthma, and Natural I	-
		kram S Amberkar, K P M	· ·
		idyasagar. Estimation of	
		n asthmatic adult patients	
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		h Clinical Practice Guidel	
	C	anagement of Tuberculosi	
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		•	ngh, and Surya Kant Oral
		urrent concepts. J Family	
77 1 1		1312. doi: 10.4103/jfmpc.	
Evaluation:	Written Exam	Practical Exam	Activity during the
			semester:
Percent of the	30 %	60 %	10 %
final grade:			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	1 MaxilloFacial Surgery and Radiology
Discipline	MaxilloFacial Surgery and Implantology
Cours title	ORAL AND MAXILLO-FACAL SURGERY
Responsible for lecture	Assoc. Prof. Dr. Cristian Dinu
Responsible for practical	Lecturer. Dr. Armencea Gabriel
activity	Vacancy position Assist. pos. 41
The formative category of	DS

the discipline									
Compulsory discipline			Compu	lsory					
* 7	~	hours	/week	ho	urs/semes	ter	m 1 G 1		Type of
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
6	2	1	3	14	42	69	125	5	Е

Pre-conditions	Head and neck anatomy. Physiology. Pathophysiology. Pathology.						
(Preliminary	Dental radiology. Dental-maxillary apparatus anatomy and						
conditions)	physiology.						
	Oral and Maxillofacial Surgery and pathology.						
	The ability to analyze the anatomo-clinical parameters while						
	studying a clinical case.						
	Critical analysis and interpreting of laboratory results and other						
	paraclinical explorations.						
	The ability to set the correct clinical diagnosis in the orofacial area.						
	Correct prescriptions writing.						
Requisities for	- amphitheater with projection systems						
lectures and	- laboratories that offer proper conditions for the practical courses						
practical activities to unfold							
	- offices with dental chairs, treatment rooms, operating rooms						

Professional	Appropriation of theoretical and practical notions regarding the
competences	patient's examination specific for this field.
	Acquiring knowledge of oral and maxillofacial pathology.
	Acquiring the necessary abilities to set the correct diagnosis and
	establish a correct treatment plan in salivary glands pathology and maxillofacial pain.
Transversal	The use of the acquired knowledge in new contexts
competences	• The implementation of theoretical notions in practical situations
	• Establishing inter-disciplinary correlations between the studied subjects
	The ability to communicate with the pacient in an efficient way
	• To show preoccupation for professional development by training the
	abilities of analytical and synthetical thinking
	• To prove involvement in research activities by elaborating scientific
	articles
General	• The course offers Sixth year students of the Dental Medicine Faculty
objectives	theoretical notions concerning oral and maxillofacial pathology.
	• The practical courses aim to offer students the necessary skills to set a
	correct diagnosis and establish an adequate treatment plan in salivary
	glands pathology and maxillofacial pain.
Specific	Assimilating knowledge of oral and maxillofacial pathology.
objectives	• Appropriation of the necessary skills to set a correct diagnosis and
	establish an adequate treatment plan in salivary glands pathology and
	maxillofacial pain.

	LECTURES					
Teaching	Lecture, Systematic and interactive explanations of topic related					
methods	cases.					
	Oral presentations, Power-Point presentations.					
Content	1. The anatomy and physiopathology of salivary glands. Notions of					
	semiology. Methods of exploring the salivary glands.					
	2. The malformations of salivary glands. Salivary secretory disorders.					
	Hyposialia, hypersialia.					
	3. The wounds of the salivary glands. The fistulas of the salivary glands.					
	4. The inflammations of the salivary glands: etiology. Acute non-					
	lithiasic sialadenitis: acute parotiditis, chronic parotiditis.					
	5. The inflammations of the salivary glands: etiology. Acute non-					
	lithiasic sialadenitis: acute submaxilitis, chronic submaxilitis.					
	6. Salivary lithiasis. Etiology. Clinical types. Submandibular lithiasis.					
	Diagnosis principles and treatment.					
	7. The lithiasis of the Stenon duct. The lithiasis of the parotid gland.					
	Diagnosis principles and.					
	8. The tumors of the salivary glands. General aspects. The classification					
	of salivary glands tumors. Clinical types of salivary glands tumors.					
	Benign tumors of the salivary glands.					
	9. The malignant tumors of the salivary glands. The dentist's tasks.					
	Treatment principles.					
	10. The sialosis. General aspects. The Sjogren syndrome. The Mickulitz					
	disease. The Mickulitz syndrome. The parotidomegaly.					
	11. The pain in the oro-maxillo-facial area. General aspects,					
	physiopathology and classification. The superficial somatic pain. The					
	burning mouth syndrome. The deep somatic pain. The musculoskeletal					
	pain. 12. The deep somatic pain. The visceral pain. The pulpal pain. The					
	vascular pain.					
	13. The neurogenic pain. The paroxysmal neuralgic pain. The essential trigeminal neuralgia. The essential glossopharyngeal neuralgia.					
	14. The neurogenic pain. The persistent neuralgic pain. Symptomatic or					
	secondary facial neuralgias. The psychogenic pain.					
	PRACTICAL ACTIVITIES					
Teaching	Power-point presentations. Interactive teaching.					
methods	Interactive teaching. Practical courses with the participation of the					
	students in the surgical treatment of oral and maxillo-facial pathologies.					
Practical	Case study, case presentations.					
activity carried	.,,					
out by students						
Content	1. Improving the knowledge on the clinical examination of the patients					
	with oro-maxillo-facial diseases.					
	2. Improving the knowledge on the clinical examination of the patients					
	with oro-maxillo-facial diseases.					
	-					

	I						
			xamination of the patients				
	with oro-maxillo-facia						
	1 0	•	xamination of the patients				
	with oro-maxillo-facia						
	C	in the clinical observat					
	corroborating the clinical results with the paraclinic ones. 6. Improving the abilities concerning hygiene rules, asepsis and						
	-	latory care and for inter	rnal patients in the oro-				
	maxillo-facial surgery						
		ne patient with salivary	gland diseases.				
	8. Methods of exploring	ng the salivary glands.					
	9. The examination an	d case presentation in a	cute diseases of the				
	salivary glands.						
	10. The examination a	and case presentation in	chronic diseases of the				
	salivary glands.						
	11. The examination of	of the patient with pain i	n the oro-maxillo-facial				
	area.						
	12. Complementary investigations in patients with pain in the oro-						
	maxillo-facial area.						
	13. The essential trigeminal neuralgia – case presentation.						
	14. Symptomatic and secondary facial neuralgias – case presentation.						
Bibliography	1. Alexandru Rotaru, Grigore Băciuț, Horațiu Rotaru, CHIRURGIE						
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		iu Haţieganu" Cluj- Naţ					
			rurgie oro-maxilo-facială"				
		Med Publishing, Bucures					
			ub redacția, Managementul				
			-faciale, 2012, Editura				
	Didactică și Peda	gogică, București, ISBN	N 978-973-30-3136-9				
			Contemporary Oral and				
		gery. 7th ed. Elsevier; l					
			of Operative Oral and				
E-voles - 4°	Written Exam	gery. Wiley Blackwell, Practical Exam					
Evaluation:	written Exam	Practical Exam	Activity during the				
D (C41	500/	500 /	semester:				
Percent of the	50%	50%	-				
final grade:							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine

Department			3 Oral Rehabilitation						
Discipline				Oral Health					
Cours	title			MEDI	CAL DE	ONTOL	OGY. BI	OETHIC	S
Respo	nsible	for lectu	re	Lectur	er Dr. M	ester Al	exandru		
Respo	nsible	for pract	ical	Prof 5-	Vacant				
activit	t y			Lecture	er Dr Mes	ter Alexa	andru		
		Assisting Professor Dr Adina Toparceanu							
				Assisting Professor 48-Vacant					
The formative category of			DS	DS					
the di	scipline	•							
Comp	ulsory	disciplin	e	Compu	lsory				
	hours/week		ho	urs/semes			Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	1	1	14	14	22	50	2	Е

Pre-conditions	General concepts of deontology and bioethics in dentistry
(Preliminary conditions)	
Requisities for lectures	Basic principles of deontology
and practical activities	To understand the legislative framework
	Risk management in dental practice

Professional	Knowledge of deontology and ethics in the field of dental medicine
competences	
Transversal	Application of theoretical concepts to practical work
competences	Establishment of interdisciplinary correlations in the studied fields
General	Knowledge of the dentist's code of ethics.
objectives	Knowledge of the basic concepts of medical ethics
Specific	Apply theoretical notions to practical work
objectives	Establishing interdisciplinary correlations within the studied domains

	LECTURES				
Teaching	Oral presentation				
methods					
Content	1. Ethical and moral concepts corelated with medical deontology				
	2. The historical evolution of moral values. Cultural, religious, and				
	economic conditioning of the norms of conduct				
	3. Values of Ethics and Conduct Applied to Contemporary Society				
	Worldwide				
	4. The concept of "medical deontology". The concept of "bioethics".				
	Contemporary applications.				
	5. Dental Practitioner Code of Ethics. Procedure for elaboration,				
	updating and application.				
	6. Current codes of ethics. A comparative approach to the ethical code				

	in Romania.				
	7. Deontological norms on dental practitioner practice.				
	8. Professional competences of the dental practitioner				
	9. The relationship between the dentist, the patient and the medical				
	team.				
	10. The advertising in dentistry.				
	11. Deontological norms in the relationship between doctors.				
	12. Disciplinary sanctions				
	13. Legal Requirements for the Code of Ethics.				
	14. The disciplinary commissions of the College of Dentists in				
	Romania and in the European Union. Organization, skills and				
	functioning.				
PRACTICAL AC					
Teaching	Practical laboratories				
methods					
Practical	Students will develop a minimum amount of knowledge in the field of				
activity carried	ethics. Students will possess the ability to apply that knowledge to				
out by students	practical problems and in real-life context, in the field of dentistry.				
Content	1. The social impact of the dentist				
	2. Aims and ethical principles applied in dental medicine				
	3. The professional responsibility of the dentist				
	4. Confidentiality and informed consent				
	5. Implications of the business environment in dental practice				
	6. The roles of the dental office in the community				
	7. Research ethics in dentistry				
	8. Ethical decision making				
	9. Medical deontology and ethics in Romania and Europe. Particular				
	aspects in dentistry.				
	10. Presentation and knowledge of the status of the dental practitioner's				
	code of ethics				
	11. Dental Practitioner Code of Ethics – Doctor – patient relationship				
	12. The Code of Ethics of the Dentist - Relationships between Doctors				
	13. The Code of Ethics of the Dentist - Advertising				
	14. Legal responsibility of the dentist				
Bibliography	1. Lambden P. Dental law and ethics. Abingdon: Radcliffe Medical				
	Pres Ltd.				
	2. David Ozar, David Sokol. Dental Ethics at Chairside. 2nd Edition.				
	Georgetown University Press				
	3. James Rule, Robert Veatch. Ethical questions in dentistry. 2nd				
	Edition				
	4. FDI World Dental Federation. Dental Ethics Manual 2. 2018.				
	Quintessence Publishing				
	5. ADA Code of Ethics: Principles, Code of Professional Conduct: &				
	Advisory Opinions				

Evaluation:	Written Exam	Practical Exam	Activity during the
			semester:
Percent of the final grade:	70%	%	30%

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies				Cluj-Napoca						
Faculty				Dental	Dental Medicine					
Doma	in of st	udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	rse		I and II	- License	and ma	sters			
Qualif	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			3 Oral	Rehabilita	ition				
Discipline			Oral Rehabilitation							
Cours title			PHYSIOTHERAPY IN DENTISTRY							
Responsible for lecture			Prof.dr. Araka Ilea							
Responsible for practical			Lecture	er –vacant	24					
activit	\mathbf{y}			Assist.l	Dr.Lazăr <i>I</i>	Adela- (CFS			
				Assist vacant 46						
The fo	rmativ	ve catego	ry of	DS						
the dis	the discipline									
Compulsory discipline			Compulsory							
X 7	hours/week		ho	urs/semes	ter	Tyr		Type of		
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	
6	2	1	2	14	28	8	50	2	Е	

Pre-conditions (Preliminary conditions)	Knowledge of dental medicine, physiology, biophysics
Requisities for	Amphitheater with projection system/ Online system
lectures and	Dental offices with specific facilities for practical activities/
practical activities	Online system

Professional competences	• The ability to use the specialized terminology properly and contextually
competences	• Knowledge of the concepts regarding the procedures of general physiotherapy, balneology, phototherapy and electrotherapy
	Knowledge of the modalities of applicability of physiotherapeutic methods in various pathologies in the oro-maxillofacial sphere
	Acquiring some knowledge regarding the professional risk for the osteo-articular apparatus and ergonomic techniques to limit this risk
Transversal	Using assimilated notions in new contexts
competences	The application of theoretical notions in practical activity
	Establishing interdisciplinary correlations in the studied fields

General objectives	Acquiring knowledge about alternative methods of classical dental medicine - physiotherapeutic methods.
Specific objectives	 Acquiring the concepts of general physiotherapy Acquiring knowledge about the mechanisms of action of the therapeutic factors used in physiotherapeutic procedures Knowledge of the pathology within the dental medicine that can be treated by physiotherapy procedures Acquisition of the concepts regarding the professional risk for the osteo-articular apparatus Acquiring the skills to use physiotherapy equipment in the dental office

LECTURES						
Teaching	Lecture, systematic interactive presentation					
methods	Oral presentation,					
	Power-point presentation					
Content	1. History of physiotherapeutic applications					
	2. The mechanisms of action of the therapeutic factors used in					
	physiotherapeutic procedures					
	3. Hydrotherapy and thermotherapy; applications in dental					
	medicine					
	4. Balneology and its implications in oro-maxillofacial pathology					
	5. Phototherapy and heliotherapy in dental medicine					
	6. Low power laser therapy (LLLT) and its applications in					
	dentistry					
	7. Ultrasound therapy: their applications in dental medicine					
	8. Methods of electrotherapy: galvanic current and ionophoresis,					
	applications in dental medicine					
	9. Electrotherapy methods: diadynamic currents, low-frequency					
	pulsed currents (TENS), applications in dental medicine 10. Climatotherapy: climatic zones in Romania and clinical applications					
	11. Peloid therapy and applications in dental medicine of sludge					
	12. Kinetotherapy and massage: principles, methods and applications					
	in dental pathology					
	13. Specific applications of physiotherapeutic procedures in dental					
	medicine					
	14. Specific applications of physiotherapeutic maneuvers in dental					
	medicine					
TD 1.	PRACTICAL ACTIVITIES					
Teaching	Power-point presentation, interactive presentation					
methods	Demonstration and the model of the second of					
Practical	Power-point presentation, practice the working equipment settings					
activity carried	as directed, applications of different procedures, exercise ergonomic					
out by students	working positions with four hands in spaces with specific equipment,					
	training activities on applications of cataplasms and compresses in					

	postoperative recovery, case report.			
Content	1. Knowledge of the usual devices used in physiotherapy			
Content				
	apparatus 2			
	3. Knowledge of the pathology in dental medicine that can be			
	treated by physiotherapy procedures			
	4. Possibilities and limits of physiotherapy in dental medicine			
	5. Practical demonstrations with the devices of the Physiotherapy Discipline			
	6. Principles of ergonomics in dental medicine and applications of			
	physiotherapy procedures to combat the negative effects of work in			
	the dental medicine office			
	7. Mechanotherapy and massage in disorders in the field of dental			
	medicine			
	8. Balneology and its implications in oro-maxillofacial pathology			
	9. Hydrotherapy and thermotherapy; applications in dental			
	medicine			
	10. Peloid therapy and dental medicine applications of indigenous			
	sludge.			
	11. Physiotherapy treatments applied in patients with periodontal			
	diseases			
	12. Physiotherapy treatments applied to patients with temporo-			
	mandibular dysfunction			
	13. Physiotherapy treatments applied in bone fractures at the level of			
	the maxillo-facial area			
	14. Physiotherapeutic treatments applied in essential and secondary			
	trigeminal neuralgia			
Bibliography	1. Lucaciu Patricia Ondine, Ilea Aranka, Ionel Anca, Crișan Bogdan,			
	Bordea Roxana, Petrescu Nausica, Aghiorghiesei Ovidiu, Câmpian			
	Radu Septimiu. Fizioterapia. Aplicații în medicina dentară. Editura			
	Școala Ardeleană, Cluj-Napoca 2020			
	2. Pop Liviu. Curs de balneofizioterapie și recuperare medicală. Cluj			
	Napoca, 1994			
	3. Bocu Traian, Tache Simona. Elemente de profilaxie și terapie prin			
	mișcare Cluj Napoca; Editura Medicală Universitară "Iuliu			
	Haţieganu", 2001			
	4. Stratulat Sorin Ioan .Recuperarea medicală Iasi ; Performantica,			
	2005			
	5. Rădulescu Andrei, Teodoreanu Elena. Fizioterapie Bucuresti;			
	Editura Medicala, 2002			
	6. Kiss Iaroslav.Fizio-kinetoterapia și recuperarea medicală în			
	afecțiunile aparatului locomotor. București; Editura Medicală, 2004			
	7. El Bsat Ruxandra. Fizioterapie pentru kinetoterapeuți. Bucuresti;			
	Semne, 2002			
	8. Chirilă Lucian .Balneo-fizioterapie și recuperare medicală			
	București; Printech, 1999.			

Evaluation: Percent of the final grade:	Written Exam 70 %	Practical Exam	Activity during the semester: 30 %
	1997 10. Popescu Roxana Craiova; editura 11. Georgiana-Ozan	Balneologie și recuperard, Patru Simona .Hidroter Medicală Universitara, 2 a Tache .Fizioterapia-pro nii dentare,Curs și Lucră	rmoterapie și balneologie 2003 ezentare și aplicații în

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Haţieganu"							
postgraduate studies		Cluj-Napoca							
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental Medicine in English					
Level	of cour	:se		I and II- License and masters					
Qualif	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			4 Prost	hetics and	Dental	materials		
Discip	line			Prosthe	etic Dentis	stry			
Cours	title			DENTAL GERONTOLOGY					
Responsible for lecture		Lecturer Dr Andrea Maria Chisnoiu							
Responsible for practical			Lecturer Dr. Oana Almasan						
activity			Assist. Dr. Ana Ispas						
	-			Assist. Dr.Silvia Balhuc					
			Assist. Dr. Manuela Manziuc						
		ve catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
37	Year Sem	hours/week		ho	urs/semes	ter	Type		Type of
Year		r Sem	C	LP/S	С	LP/S	SI	Total	Credits
6	2	1	2	14	28	8	50	2	E

Pre-conditions	Notions regarding medical semiology, fixed and removable		
(Preliminary conditions)	dental prosthetics		
Requisities for lectures	Projection system within the amphitheatre		
and practical activities	Dental unit offices		

Professional competences	 Utilizing the specialty's terminology in accordance to the context . Adopting a prompt and correct medical attitude towards the elderly patient in order to increase their quality of life.
	• General knowledge of the morphological and physiological changes due
	to the ageing of the tissues, organs and the human organism's systems

	 and understanding of the pathological risks during the ageing process and the importance of the inter-disciplinary collaboration during the dental treatment period. Bucco-dental pathology related knowledge associated with the ageing process of the human body. Establishing and conducting dental treatments in accordance to the biological age of the elderly patients while taking into consideration their overall health.
Transversal	Applying the theoretical notions upon treatment practice.
competences	• Applying the theoretical notions upon the practical activity.
•	• Establishing inter-disciplinary correlations between the studied fields.
General	Acquiring knowledge regarding bucco-dental pathology of the elderly
objectives	patients and the therapeutic conduct used in the context of the overall
0.0001100	health and the progressive involution of the human body.
Specific	Acquiring knowledge regarding the general morphological and
objectives	physiological changes due to the ageing process and the implications
	over the therapeutic attitude of the dentist.
	• Acquiring knowledge regarding the necessary adjusting of the general dental treatments required for the elderly patients' general pathology in order to avoid certain risks and achieving the therapeutic success which increases their life quality.
	• Acquiring knowledge regarding the dento-maxillary changes caused by ageing.
	• Learning the specific dental treatments required for the healthy elderly patient.
	• Learning the specific dental treatments required for the elderly patient displaying an overall complex pathology. The therapeutic approach for the disabled elder.
	• Using the ability to research and summarize the bibliography.

	LECTURES				
Teaching	Lecture, systematic interactive presentation				
methods	Oral presentation, Power-Point presentation				
Content	The ageing concept as a component of the life-cycle. Ageing theories: evolutionary and non-evolutionary theories. The evolution of the present population's life-span and its consequences.				
	Neuropsychiatric ageing and doctor-patient collaboration. General aspects of aging at the level of sensory perception and the implication on dental treatments.				
	General aspects of ageing upon the tegumentary level, renal, respiratory, locomotor apparatus and their implications on dental treatments				
	General aspects of ageing upon the cardiovascular and endocrine level, the immune system and their implications on the dental therapeutic conduct.				

	The ageing process of the digestive system. ADM morpho-functional			
	integrity and the elder's nutrition.			
	The medical prescribtion for elders: potential risks of the elder's			
	polymedication.			
	The ageing of the ADM. The ageing of the dental pulp and the			
	periodontal; the implications upon the dental treatments.			
	The ageing of the ADM: bone changes upon the orofacial level, ATM			
	changes upon the solid dental tissue.			
	Aging of the salivary glands and mucous membranes of the oral cavity.			
	The hyposalivation of the elderly.			
	Dental attrition in the elderly patient: ways of evaluation, modern			
	treatment options.			
	Dental caries of the elderly: treatment and prophylaxis.			
	The specificity of fixed prosthetic treatments in the elderly patient.			
	Partially removable prosthesis in the elderly patient. Reconditioning of			
	the old removable prostheses. Immediate total prosthesing.			
	The total upper-implant prosthesing on the prosthetically unfavorable			
	base of the elderly. Maintainting the therapeutic results on the elderly			
	patient.			
	PRACTICAL ACTIVITIES			
Teaching	Power-point presentation, interactive teaching, practical demonstration			
methods	on the patient.			
Practical	Performing dental treatments to elderly patinents in accordance to the			
activity carried	cause. Discussing the focal infection risks of the elderly.			
out by students				
Content	The clinical examination of the elderly patient and the process of			
	applying the survey for geriatric assessment of the general health status,			
	collaboration with the family doctor.			
	Evaluation of complementary examinations in elderly with partially			
	edentated parodontopathy of senescence (atrófica). Case analysis on			
	bimaxillary study models. Establishing the diagnosis, therapeutic goals			
	and the stage hierarchy of the prosthetic treatment.			
	Performing therapeutical and prophylactic dental therapies in the			
	elderly patient with focal infection / disability.			
	Maintaining prosthetic treatment results. Performing calculus removal			
	and prophylactic fluoridation on the elderly patient.			
	Establishing the prosthetic treatment plan for the partially edentated			
	elderly patient with serious cardiovascular, neurological, renal diseases.			
	Establishing the prosthetic treatment plan for the partially edentated			
	elderly patient with a serious health condition. Indicating composite			
	prosthetic treatments			
	Performing endodontic treatments on the elderly. The health education			
	of the patient and the bucco-dental hygiene in the elderly with			
	disabilities.			
	Examination of the partially edentated elderly patient with periodontal			
	disease, assessment of periodontal status, diagnosis and therapeutic			

	nlon				
	plan.	itative assessment of saliv	yamy sagnation in the		
	_	salivary tests. Diagnosis o	-		
	• • •	•	• •		
		ation: dental brushing me			
	methods and fixed and mobile dentures hygiene. Dental attrition assessment in the elderly, detecting the favorable and				
		the pathological dental att			
		tic and prophylactic meas	sures. Diagnosis and		
	treatment of cement of		a a a di a a la a a a d		
	U • 1	lental preparations on mor			
	_	order to achieve PPF / Pl			
		ase and gingival retraction			
	_	y patient partially edented			
		r immediate total prosthes	is. Reconstruction of		
	partial / total removal	of total edentation through	alinical axamination		
		_			
	CTCB analysis, OPT, and establishing the treatment plan by upper-				
	implanted prosthesis in the totally endented elderly patient suffering from a deficient prosthetic base.				
Bibliography	Lussi A., Jaeggi T. Dental erosion. Diagnosis, risk assessment,				
Dibnography	prevention, treatment. Ed.Quintessence International Paris 2012				
		"Consideratii asupra trata			
	geronto-stomatologie/Considerations on prosthetics treatments in				
	geriatric dentistry "Ed. Universitara "Carol Davila" Bucuresti 2016				
	3. Pizzo G, Guiglia R, Lo Russo L, Campisi G. Dentistry and internal				
	medicine: from the focal infection theory to the periodontal				
	medicine concept. Eur J Intern Med. 2010 Dec;21(6):496-502.				
	4. Reyes L, Herrera D, Kozarov E, Roldán S, Progulske-Fox				
	A.Periodontal bacterial invasion and infection: contribution to				
	atherosclerotic pathology. J Clin Periodontol. 2013 Apr;40 Suppl				
	14:S30-50.				
	5. Holm-Pedersen P, Walls AWG, Ship JA. Textbook of Geriatric				
	Dentistry, 3rd Edition. Ed. Wiley Publishing, 2016.				
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the	70%	20%	10%		
final grade:					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"		
postgraduate studies	Cluj-Napoca		
Faculty	Dental Medicine		
Domain of study	Health		
Academic degree	Dental Medicine in English		
Level of course	I and II- License and masters		
Qualification	Doctor of Dental Medicine		
Department	3 Oral Rehabilitation		

Discipline			Oral Health						
Cours title			PROFESSIONAL ORGANIZATION AND						
			LEGIS	LEGISLATION					
Responsible for lecture			Lectur	Lecturer Dr. Mester Alexandru					
Respo	nsible	for pract	ical	Lecture	er Dr Mes	ter Alexa	andru		
activit	activity			Assisti	ng Profes	sor Dr O	vidiu Agl	niorghiesei	i
	v								
The fo	The formative category of			DS					
the di	scipline	•							
Comp	ulsory	disciplin	e	Compulsory					
hours/week		ho	urs/semes	rs/semester		Type of			
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
6	2	2	2	28	28	69	125	5	E

Pre-conditions	General concepts of legislation in dentistry
(Preliminary	
conditions)	
Requisities for lectures	To acquire basic principles of dental office organization
and practical activities	To understand the legislative framework
	Risk management in dental practice

Professional	Legal concepts in dentistry
competences	The regulation of dental practice
	Standards of care
Transversal	Application of theoretical concepts to practical work
competences	Establishment of interdisciplinary correlations in the studied fields
General	This course is focused on the use of law and policy tools to promote
objectives	access to an evidenced-based dentistry as an important determinant of
	patient health and community wellbeing.
Specific	To introduce the constitutional foundations of laws in dentistry.
objectives	To enable students to extrapolate legal theories and reasoning
	essential to careers as dental practitioners.
	To enable students to navigate dental research for the purposes of
	supporting their own viewpoints related to health laws.
	To develop confidence and competence when debating, addressing
	and presenting controversial dental policies.

	LECTURES					
Teaching	Teaching Oral presentation					
methods	methods					
Content	Content 1. Legislative framework of dental practice in the European Union and					
	worldwide					
	2. The evolution of medical legislation					

	<u> </u>			
	3. Classification and hierarchy of normative acts			
	4. The structure of the normative acts			
	5. Legislative concept and information of legislature			
	6. The release and the competence of creating the normative acts			
	7. Romanian Constitution and European normative acts with			
	application in dentistry			
	8. The organization of the dental office (as healthcare provider)			
	Legislation and procedure for assessing the quality of the medical act in			
	the dental office			
	9. Legislative regulation of the professional practice of the dentist			
	10. Legislation and relevant authorities implicated in the patient-dentist			
	relationship			
	11. College of dentists in Romania and European Union – organization			
	and functioning			
	12. Professional organizations implicated in the opening of the dental			
	office			
	13. Current regulations on personal data protection. Implementing the			
	personal data protection notions in the dental office			
	14. Legal responsibility of the dentist			
	PRACTICAL ACTIVITIES			
Teaching	Practical laboratories			
methods				
Practical	Students will develop a minimum amount of knowledge in the field of			
activity carried	dental health law. Students will possess the ability to apply that			
out by students	knowledge to practical problems and in real-life context, in the field of			
	dentistry.			
Content	1. Legislative framework of the dental practice			
	2. The liberal nature of dental practice as it is defined by the law			
	3. Defining moral values. Defining behavioral values in concordant,			
	discordant or antagonistic forms.			
	4. What is a normative act? Governing society through laws.			
	Harmonizing legislation with medical notions and medical training.			
	5. The structure of a normative act. Types of normative acts: treaties,			
	directives, laws, regulations.			
	6. Hierarchy of normative acts. Correlation and harmonization of the			
	content of the normative act in relation to the higher normative act (e.g.			
	from the dental field).			
	7. Legislative authorities. Limits of legislative authority of professional			
	associations and healthcare providers. Internal regulations of the dental			
	office.			
	8. Legislative regulation the professional training and obligations of the			
	dentist in the European Union (DIRECTIVE 2005/36/EC OF THE			
	EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7			
	September 2005 on the recognition of professional qualifications)			
	9. Medical data management. General Data Protection Regulation			

) 2016/679 OF THE EUR O OF THE COUNCIL of 2				
		persons with regard to the				
		novement of such data, and ata Protection Regulation)				
	``	ata Protection Regulation) UROPEAN PARLIAMEN				
		ril 2016 on the protection of				
	regard to the processing of personal data by competent authorities to					
	the purposes of the prevention, investigation, detection or prosecution					
	of criminal offences or the execution of criminal penalties, and or					
		ch data, and repealing Cour	ncil Framework			
	Decision 2008/977/JH					
		 Public Health, National 	Health Programs,			
	Primary Health Care	TT 1.1 ' IDI C	1			
		– Health insurance. The fi	ramework contract,			
		rules for dental services. gulating the establishment	and organization of the			
		nces on the organization ar				
		egarding the technical con				
	office.	-8				
	13. The law of health	- Exercise of the dental pr	rofession. Organization			
		e College of Dentists in Ro	omania and European			
	Union.					
		nalpractice. Preparation of				
	14. Normative acts issued by the public authority in dental medicin					
Dibliography	the European Union. 1. Regulation (EU) 2016/679 of the European Parliament and of the					
Bibliography		oril 2016 on the protection				
	-	cessing of personal data an	-			
		repealing Directive 95/46/				
	Protection Regula	-	`			
	_	mper. Professional Respon	sibility in Dentistry: A			
	Practical Guide to Law and Ethics. Wiley.					
	_	pects of General Dental Pr	actice. Churchill			
	Livingstone. 4. Lambden P. Dent	tal law and ethics. Abingdo	on: Padeliffa Madical			
	Pres Ltd.	iai iaw and cuncs. Adingu	on. Rauchine Medical			
		McHale, J.V. Health law	and the European			
	•	ge University Press: Cambr	-			
Evaluation:	Written Exam	Practical Exam	Activity during the			
			semester:			
Percent of the	70%	%	30%			
final grade:						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca

Faculty			Dental Medicine						
Domain of study			Health						
Academic degree			Dental	Medicine	in Engli	ish			
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	l Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Pedodo	ntics				
Cours	title			PEDO	DONTIC	CS			
Responsible for lecture			Lecturer Dr. Meda-Romana Simu						
Responsible for practical			Assoc. Prof. Dr. Alexandrina Muntean						
activity			Lecturer Dr. Meda-Romana Simu						
			Assist. Dr. Raluca Diana Ghiran						
				Assist. Drd. Paula Argentina Jiman					
				Assist.	Drd. Irina	a Lupșe			
				Assist. Drd. Lavinia-Luminiţa Voina					
The fo	rmativ	ve catego	ry of	DS					
the dis	the discipline								
Compulsory discipline			Compulsory						
* 7	G	hours	/week	hours/semester			- ·	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	2	4	28	56	66	150	6	Е

Pre-conditions	Knowledge of the anatomy and physiology of dento-
(Preliminary conditions)	maxillary system.
Requisities for lectures	Amphitheater with projection system.
and practical activities	Cabinets with dental units.

Professional	Particularities of clinical and complementary examination in pediatric				
competences	dental medicine				
	Behavioral particularities of the child and adolescent patient				
	Oral mucosal pathology in children				
	Dento-periodontal traumatic injuries during childhood and adolescence				
	Pedodontic treatment in children with general medical problems				
	Parodontopathies - peculiarities of diagnosis and treatment during				
	childhood and adolescence				
	Medical emergencies in the pediatric dental office				
Transversal	Using similar concepts in new contexts				
competences	Application of theoretical concepts in practical activity				
	Establish interdisciplinary correlations in the studied areas.				
General	Psychology and approach to the child in the dental office				
objectives	Particularities of diagnosis and treatment of dental lesions in children				
	and youth				
	Particularities of mucosal diseases, periodontal diseases, during				

	childhood and adolescence			
	Dento-periodontal trauma in children and young people			
	Management of patients with general pathology			
	Prevention of dento-periodontal diseases and dento-maxillary anomalies			
	during childhood and adolescence			
Specific	Particularities of clinical and complementary examination in children			
objectives	and young people			
	 Techniques of communication and approach of the child and adolescent patient 			
	Mucosal disorders in children			
	Dento-periodontal traumatic lesions in children and adolescents			
	Periodontal diseases in children and young people			
	• Elaboration and phasing of the complex treatment plan			
	• Exercise of synthesis and bibliographic documentation			

LECTURES						
Teaching	Lecture, systematic, interactive exposition, Oral exposure, Power					
methods	Point presentations					
Content	1. Traumatism of temporary teeth - clinical forms, diagnosis,					
	treatment.					
	2. Traumatism of young permanent teeth - clinical forms, diagnosis,					
	treatment.					
	3. Diseases of oral mucosa in children and adolescents - clinical					
	forms, diagnosis, treatment.					
	4. Periodontal diseases in children and adolescents - clinical forms,					
	diagnosis, treatment.					
	5. The therapeutic approach of children and adolescents with					
	disabilities.					
	6. Dental treatment of children with general disorders.					
	7. Pain control in pediatric dentistry: anesthesia local, loco-regional,					
	general, sedation.					
	8. Medication in children and adolescents.					
	9. Dental extraction in pediatric dentistry - indications,					
	contraindications, preoperative preparation, postoperative control, local complications, general, monitoring.					
	10. Prosthetic treatment in children and young adults, space					
	maintenance, prosthetic treatment, conjunctival prosthetic					
	treatment, complex oro-dental restorations.					
	11. General emergencies in the pediatric dental office.					
	12. Colaboration of the pediatric dental treatment plan.					
	13. Prophylaxis of dento-maxillary anomalies in children and					
	adolescents.					
	14. Therapeutic approach of patients with labio-maxilo-palatine clefts					
	during childhood and adolescence.					
	PRACTICAL ACTIVITIES					

Too shiw -	Dunatical damage					
Teaching	Practical demonstration	on, interactive dialogue,				
methods	D C : 1	1: 1 : 7	1. 1. 1			
Practical		clinical examinations, Rac				
activity carried	_ ·	al eruption process assess				
out by students		velopment of positive / di				
		l anaesthesia for children,				
	1 1	axis according to dentition				
		o dentition, Performing po				
		on of the possibilities of				
		acute and chronic general	disorders			
Content	1. Complex clinical examination					
	Pedodontic complex diagnosis					
		tment plan, emergency tre	eatment			
	4. Complementary ex					
		apeutic attitude in tempor				
		apeutic attitude in young				
	-	ementary examinations in	n periodontal disease in			
	children					
		erapeutic attitude in childs				
		of mucosal diseases in chi	ildren			
		dren and young patients				
	11. Extraction of temporary teeth					
	12. Extraction of perr	nanent teeth				
	13. Prosthetic treatme	ent in children and young	patients			
	14. Particular features	s of pedodontic treatment	in children with general			
	medical problems					
Bibliography	1. Koch, G., Poulse	n, S., Espelid, I., Haubek,	D. (Eds.). (2017).			
	Pediatric Dentistry: A Clinical Approach. John Wiley & Sons.					
	2. Michaela Mesaros, Alexandrina Muntean, Medicina Dentara					
	Pediatrica, Ed. Medicala Universitara "Iuliu Hatieganu", 2016,					
	Isbn 978-973-693					
		ohn R. Christensen. Pedia	-			
		Adolescence, 6e Hardcov				
		's. Dentistry For The Chil	ld And Adolescent, 10e			
	Hardcover. 2015					
	6. Amr M. Moursi Clinical Cases In Pediatric Dentistry. 2nd Edition,					
	2020.					
		, Peter Day. Clinical Prob				
	1	lontics And Paediatric De	•			
7 1	8. M. Muller-Bolla. Guide D'odontologie Pediatrique.2018					
Evaluation:	Written Exam	Practical Exam	Activity during the			
	(0.0)	4027	semester:			
Percent of the	60 %	40%	30% from the			
final grade:			practical exam grade			

Institution for graduate and postgraduate studies			University of Medicine and Pharmacy "Iuliu Haţieganu" Cluj-Napoca							
Faculty			Dental Medicine							
	in of st	ndv		Health	Medicine	*				
					Madiaina	in Engli	ah			
	mic de				Medicine					
Level	of cour	:se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medicii	ne			
Department			3 Oral	Rehabilita	ation					
Discipline			Oral Health							
Cours	title			PUBLIC HEALTH IN DENTISTRY						
Responsible for lecture			re	Lecturer 26. Vacant (Prof Dr Ondine Lucaciu)						
Responsible for practical			Lecturer Dr. Alexandru Meşter							
activit	y			Assist.	Dr. Ioana	Codruța	ı Mirică			
The fo	rmativ	e catego	ry of	DS						
the dis	scipline	2								
Compulsory discipline		Compulsory								
	7	hours/week		ho	urs/semes	ester		Type of		
Year	Sem	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
6	2	2	4	28	56	66	150	6	Е	

Pre-conditions	Knowledge of dental medicine, public health, epidemiology
(Preliminary conditions)	
Requisities for lectures	Virtual amphitheater with projection system
and practical activities	Laboratories with specific equipment for practical activities

Professional	Capacity to adequately and in context use the specialty terminology					
competences	Deepening the notions of primary and secondary prophylaxis					
	Preserving oral health - hospitalization					
	• Continuous improvement of life quality correlated with oral health –					
	regarding the population's health and comfort state					
	Implementation of a healthy behavior among the population					
	Perfection of the capacity to render prophylactic and theoretical					
	knowledge in medicine					
Transversal	Use of assimilated notions in new contexts					
competences	Application of theoretical concepts to practical activity					
	Establishment of interdisciplinary correlations in the studied fields					
General	Knowing the oral health problems worldwide and the role of the dentist					
objectives	in regarding the assessment of the oral health, of its determinants and					
	the possibilities to influence the oral health status.					
Specific	Learning the knowledge regarding the health concepts					
objectives	Developing concepts of oral-dental public health					
	Promotion of oral health					
	Monitoring and public assistance of dental disseases					

Prevention and control of dental diseases and promotion of dental
health through the effort of the community
• Health condition of the population depending on the determinants of the
health condition: social-economical, biological, environmental, life
style, insurance of health services, quality and accesibility of health
services
Exercising the capacity of synthesis and documentation item

LECTURES							
Teaching	Lecture, Systematic and interactive presentation						
methods							
Content	1. Principles of dental public health						
	2. History of dental public health						
	3. Inequalities in Dental Public Health						
	4. Efforts of DPH worldwide						
	5. The concept of risk factor.						
	6. Determinants of population's health						
	7. Primary health care						
	8. Aspects of oral health on groups of diseases: decays, periodontitis, malignant tumors, malformations and dento-maxillary abnormalities, traumas, infections						
	9. Aspects of oral health on groups of diseases: decays, periodontitis,						
	malignant tumors, malformations and dento-maxillary abnormalities,						
	traumas, infections						
	10. Aspects of oral health on groups of diseases: malformations and						
	dento-maxillary abnormalities,						
	11. Principles and methods of oral epidemiology						
	12. Principles and methods of oral epidemiology						
	13 . Ethics in public health.						
	14 . Ethics in public health.						
	PRACTICAL ACTIVITIES						
Teaching	PowerPoint presentations, interactive teaching.						
methods							
Practical	Essay presentation on the topic						
activity carried							
out by students							
Content	1. Oral health assessment form						
	2. Design of an oral health survey						
	3. Pathfinder surveys						
	4. Organizing the survey. Preparing a survey protocol						
	5. Organizing the survey. Obtaining approval from the authorities						
	6. Organizing the survey. Budgeting						
	7. Organizing the survey. Scheduling						
	8. Reliability and validity of data. Training and calibrating examiners						
	9. Implementing the survey. General preparation						

	10 Assessment of ora	l health status. Standard	forms			
	11. Assessment of ora	al health status. Standard	codes			
	12. Clinical examinat	ion				
	Dentition status					
	Periodontal status:					
	Community Periodon	ital Index				
	(CPI) modified					
	Loss of attachment					
	Enamel fluorosis					
	Dental erosion					
	13. Clinical examinat					
	Traumatic dental injuries					
	Oral mucosal lesions					
	Denture status					
	14. Preparation of survey reports					
Bibliography	1. Farah C.S., Balasubramaniam R., McCullough M.J. Contemporary					
	Oral Medicine. 2019. Springer International Publishing AG.					
	2. WHO. International Standards for Clinical Trial Registries.					
	2018.World Health Organization.					
Evaluation:	Written Exam Practical Exam Activity during the					
	semester:					
Percent of the	60%	20%	20%			
final grade:						

Optionals:

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	y			Dental	Medicine				
Domai	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	ication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			2					
Discipline			Toxicology						
Cours title				Risks associated with drug consumption					
Responsible for lecture			re	Prof. Dr. Béla Kiss					
Responsible for practical			-	-					
activit	y								
The fo	rmativ	e catego	ry of	DS					
the dis	scipline	<u> </u>							
Compulsory discipline			Optional						
X 7	a	hours/week		ho	urs/semes	ter	er		Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total Cre	Credits	Assessment
1	1	1	0	14	0	36	50	2	V

Pre-conditions	Physiology
(Preliminary	
conditions)	
Requisites for	Students are expected to attend all scheduled lectures on time at the
lectures and	amphitheatre
practical	If lectures will be organized online, students will connect in time to the
activities	Microsoft Teams platform
	They will have their mobile phone switched off
	Students must respect the internal rules and regulations of the
	university

Professional competences	 At the end of the lectures, students must be aware of: The extent of drug addiction in Romania and worldwide The main health risks associated with drug abuse The economic and social consequences of illicit drug abuse and trafficking
Transversal competences	• At the end of the lectures, students must be able to participate in campaigns aiming to educate and inform the general population (e.g. in high-schools, universities) about the risks of drug abuse
General objectives	• To acquire theoretical knowledge about the risks associated to drug abuse and addiction
Specific objectives	 To acquire theoretical knowledge about: The main classes of drugs of abuse: their forms of presentation, ways of consumption Causes of drug use and predisposing factors Main causes of morbidity and mortality in drug users The therapeutic approaches available for drug overdose cases and drug addiction

	LECTURES					
Teaching methods	Lecture (systematic presentation with PowerPoint support), exemplification, discussion					
Content	1. History of drug abuse					
	2. The situation of drug abuse in Romania and worldwide. The					
	prevalence of consumption.					
	3. The motivation of starting the drug abuse. Risk factors					
	4. Abuse and addiction - Related terminology					
	5. Classification of drugs of abuse.					
	6. Medical consequences of drug abuse. Morbidity and mortality					
	associated to drugs of abuse consumption.					
	7. Social, economicas, legal consequences of drug abuse. Drugs					
	and crime rate increase					
	8. Opiates (forms of presentation, quality of drugs of abuse from					
	the illicit market)					

9. Opioids (forms of presentation, quality of drugs of abuse from the illicit market) 10. Stimulants – cocaine (forms of presentation, quality of drugs of abuse from the illicit market) 11. Stimulants – amphetamines, cathinones (forms of presentation, quality of drugs of abuse from the illicit market) 12. Psychodysleptics - cannabis (forms of presentation, quality of drugs of abuse from the illicit market) 13. Psychodysleptics – synthetic cannabinoids, LSD, designer drugs, new psychoactive drugs (forms of presentation, quality of drugs of abuse from the illicit market) 14. Therapeutic approaches in acute intoxication with drugs of abuse and in drug addictions 1. Flomenbaum NE, Howland MA, Goldfrank LR, Lewis NA, Hoffman **Bibliography** RS, Nelson LS. Goldfrank's Toxicologie Emergencies. NY The McGraw Hill, 2006 2. G. Cicu, D. Georgescu, A. M. Moldovan Concepte de bază privind tulburările datorate consumului de substanțe, București, Agenția Națională Antidrog, 2007 3. Michel, R., Laurent, K., Henri-Jean, A. & Amine, B. Traité d'addictologie. (Lavoisier, Paris, 2016). 4. Nelson, M. E., Bryant, S. M. & Aks, S. E. Emerging drugs of abuse. Emerg. Med. Clin. North Am. 32, 1–28 (2014). 5. UKDPC. A Fresh Approach to Drugs: the final report of the UK Drug Policy Commission. (2012). Available at: http://www.ukdpc.org.uk/wp-content/uploads/a-fresh-approach-todrugs-the-final-report-of-the-uk-drug-policy-commission.pdf. (Accessed: 26th June 2017) 6. Fogaça, M. V., Campos, A. C. & Guimarães, F. S. Neuropathology of Drug Addictions and Substance Misuse. Neuropathology of Drug Addictions and Substance Misuse (2016). doi:10.1016/B978-0-12-800213-1.00070-5 7. EMCDDA (European Monitoring Centre for Drugs and Drug Addiction). New developments in Europe's cannabis market. 2008– 2013 (2014). 8. Drugs, P. O. N. Controlling new psychoactive substances. (2012). 9. European Monitoring Centre for Drugs and Drug Addiction. European Drug Reports 2014-2020 10. European Monitoring Centre for Drugs and Drug Addiction. Understanding the Spice Phenomenon. Themat. Pap. 25 (2009). doi:10.2810/27063 11. Unodc. World drug reports 2014-2020. United Nations publication

12. Raport national privind situatia drogurilor 2014-2019.

methoxetamine. Ann. Emerg. Med. 60, 97–99 (2012).

13. Hofer, K. E. et al. Ketamine-like effects after recreational use of

14. Peacock A, et al, New psychoactive substances: challenges for drug

	surveillance, control, and public health responses, Lancet, 2019 Nov 2;394(10209):1668-1684. doi: 10.1016/S0140-6736(19)32231-7				
Evaluation:	Written Exam Practical Exam Activity during the semester:				
	semester.				
Percent of the final grade:	100%				

Institu	ition fo	r gradua	ate and	Univer	sity of Me	University of Medicine and Pharmacy "Iuliu Haţieganu"						
		studies		Cluj-Napoca								
Facult	ty			Dental Medicine								
Doma	in of st	udy		Health								
Acade	mic de	gree		Dental	Medicine	in Engli	ish					
Level	of cour	se		I and II	- License	and mas	sters					
Qualif	fication	1		Doctor	of Dental	Medici	ne					
Depar	tment			2 Cons	ervative (Odontolo	gy					
Discipline				Pedodontics								
Cours	title			Prophylaxis of dento-maxillary anomalies								
Respo	nsible	for lectu	re	Assoc. Prof. Dr. Alexandrina Muntean								
		for pract	ical									
activit	•			- DG								
		e catego	ry of	DS								
	scipline											
Comp	Compulsory discipline			Optional								
***	Sem	hours	/week	ho	urs/semes	ter			Type of			
Year		С	LP/S	С	LP/S	SI	Total	Credits	Assessment			
2	1	1	0	14	0	36	50	2	V			

Pre-conditions	Knowledge of the anatomy and physiology of dento-
(Preliminary conditions)	maxillary system.
Requisites for lectures and	Amphitheater with projection system.
practical activitis	

Professional	• Chariel features of the clinical and complementary evamination in						
	• Special features of the clinical and complementary examination in						
competences	pediatric dentistry						
Transversal	Use assimilated concepts in new contexts						
competences	Apply theoretical notions in the practical activity						
General	• Know the concepts of the normal and pathological development of the						
objectives	dento-maxillary apparatus						
Specific	• Notions on the development of the dento-maxillary apparatus during						
objectives	childhood						
	Particularities of the clinical examination in children and adolescents						
	Normal and pathological development of the dento-maxillary apparatus						
	Dento-maxillary anomalies - diagnostic concepts						

 Dysfunctions and parafonctions
• Early and interceptive treatment.

Teaching		ECTURES				
	interactive recture, i	PowerPoint presentation	ons made by groups of			
methods	-	l themes / educational p	• • •			
Content	1. Introduction, revision	on of the anatomy and pl	nysiology of the dento-			
	maxillary system					
	2. The definition of de	ento-maxillary anomalies	s. Examples			
	3. Muscular factors that	at are influencing harmo	nious development of the			
	dento-maxillary system	n				
	4. Muscular balance as	nd the influence on the d	levelopment of			
	dentoalveolar arch sha	ipe.				
		s, the neuromuscular mat				
	6. Centrifugal forces a	and their role in determin	ing the shape of			
	dentoalveolar arch. Th	ne tongue and itsrole in d	evelopment of the dento-			
	maxillary system					
		perioral muscle's role in	the development of			
	dentoalveolar arches					
		al muscles at rest and in a	activity, on the			
	development of the de					
		of the dento- maxillary				
			olar anomalies: nasal, oral			
		Means to fight against or				
		cal swallowing role in th				
		Measures of prophylaxis	•			
	12. Vicious habits					
	13. Means to fight aga					
	14. Early loss of temporary and permanent teeth in the etiology of dento-					
	maxilary anomalies; prevention measures					
Bibliography		MESAROS, ALEXA				
			icala Universitara " Iuliu			
		5, ISBN 978-973-693-72				
		WAK, JOHN R. CH	HRISTENSEN. Pediatric			
	Dentistry:	A dalaaaanaa .	2019			
		Adolescence, 6e Hardcov	the Child and Adolescent,			
	4. MCDONALD, A		the Child and Adolescent,			
			Pediatric Dentistry. 2nd			
	Edition, 2020.	RSI CIIIICAI CASES III	remaine Denusuy. 200			
		HETT PETER DAV	Clinical Problem Solving			
		nodontics and Paediatric				
Evaluation:	Written Exam	Practical Exam	Activity during the			
L'andunyii.	TTILLE II L'AUIII	I I ucucui Daum	semester:			

Percent of the	%	%	100 %
final grade:			

Institu	ition fo	r gradua	te and	Univer	sity of Me	edicine a	nd Pharm	acy "Iuliu	Haţieganu"	
postgr	aduate	e studies		Cluj-Napoca						
Facult	t y			Dental	Medicine	;				
Doma	in of st	udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engli	sh			
Level	of cour	se		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medicii	ne			
Depar	tment			2 Cons	ervative (Odontolo	gy			
Discip	line			Pedodo	ntics					
Cours	Cours title				Oro-dental health of children and adolescents in the					
				context of general health						
Respo	nsible	for lectu	re	Assoc. Prof. Dr. Alexandrina Muntean						
Respo	nsible	for pract	ical							
activit	y									
The fo	rmativ	e catego	ry of	DS						
the dis	scipline	9								
Comp	Compulsory discipline			Optional						
37	Sem	hours	/week	ho	urs/semes	ter	TD 4 1	G 114	Type of	
Year		С	LP/S	C	LP/S	SI	Total C	Credits	Assessment	
3	1	1	0	14	0	36	50	2	V	

Pre-conditions	Knowledge of the anatomy and physiology of dento-
(Preliminary conditions)	maxillary system. Preventive dentistry-basic notions.
Requisites for lectures	Amphitheater with projection system.
and practical activities	

Professional	Special features of public health principles used in pediatric dentistry							
competences								
Transversal	Use assimilated concepts in new contexts							
competences	Apply theoretical notions in the practical activity							
General	• Know the concepts of prevalence and prevention of oral-heatl related							
objectives	pathologies.							
Specific	Oral health, general health.							
objectives	Normal and pathological development of the dento-maxillary							
	apparatus							
	• Decay prevention.							
	Vicious habits and parafunctions							
	Health education.							

LECTURES

Teaching	Interactive lecture, PowerPoint presentations made by groups of students on assigned themes / educational projects.							
methods Content			ojecis.					
Content	1. Health-definitions,							
		health-definitions, conce	pts					
	3. Evaluation indices t							
	4. Childhood and adolescence-caries risk assessment							
	5. Childhood and adolescence-psycho-cognitive and collaborative							
		and limiting factors for o						
		ntrol of odonto-periodont						
	• •	-risk factor / control of od	onto-periodontal					
	diseases							
	8. Vicious habits and j							
		toring oro-dental health						
	10. OHRQoL-definition	•						
	11. OHRQoL-evaluati	ion criteria						
	12. Interdependence b	etween individual health	and public health					
	13. The impact of oral	diseases on individual he	ealth					
	14. Health education i	n the context of today's so	ociety					
Bibliography		MESAROS, ALEXAN						
		ra Pediatrica, Ed. Medi						
		6, ISBN 978-973-693-724						
	2. ARTHUR NOV	WAK, JOHN R. CH	RISTENSEN. Pediatric					
	Dentistry:							
		Adolescence, 6e Hardcove						
		VERY'S. Dentistry for the	ne Child and Adolescent,					
	10e Hardcover. 2	015						
	5. AMR M. MOU	RSI Clinical Cases in	Pediatric Dentistry. 2nd					
	Edition, 2020.							
		LLETT, PETER DAY. (
	in Dentistry: Orthodontics and Paediatric Dentistry. 2016.							
Evaluation:	Written Exam	Practical Exam	Activity during the					
			semester:					
Percent of the	%	%	100%					
final grade:								

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"
postgraduate studies	Cluj-Napoca
Faculty	Dental Medicine
Domain of study	Health
Academic degree	Dental Medicine in English
Level of course	I and II- License and masters
Qualification	Doctor of Dental Medicine
Department	3 Oral Rehabilitation
Discipline	Oral Health
Cours title	Innovative methods for tissue regeneration in

				dentistry						
Responsible for lecture				Lectur	Lecturer vacant 25					
Responsible for practical										
activity										
The fo	The formative category of			DS						
the di	scipline	9								
Comp	Compulsory discipline			Option	al					
* 7	hours/week			hours/semester			m . 1	G 11.	Type of	
Year Sem		C	LP/S	С	LP/S	SI	Total	Credits	Assessment	
4	1	1	0	14	0	36	50	2	V	

Pre-conditions	Cervical area anatomy and physiology, Odontology, Endodontics,
(Preliminary	Prosthetics, Parodontology, Maxillofacial Surgery, Implantology,
conditions)	Orthodontics.
Requisities for	Amphitheater with projection system
lectures and	
practical activities	

Professional competences	 Designing and applying predictable and innovative dental treatment plans useful in clinical situations that involve the loss of hard or soft parts of the oral cavity. Ability to decide the opportunity for autologous tissue regeneration in daily dental work. A new approach in clinical cases by future dental practitioners, by developing a thinking that integrates the knowledge accumulated during lectures within the optional course. The development of skills that will favor the improvement of individual performances, in accordance to their professional aspirations, as well as the embracing and application of new technologies in the field of regenerative dental medicine.
Transversal	• Integration of the notions assimilated during the lectures of regenerative
competences	dentistry in Odontology, Endodontics, Prosthetics, Parodontology, Maxillofacial Surgery, Implantology, Orthodontics.
	 Applying theoretical notions in practical work.
	Establishment of interdisciplinary correlations within the studied domains.
General	The knowledge of the basic notions regarding the sources, the
objectives	morphophysiology, the classification, the benefits brought by the
	application of the knowledge accumulated in the current dental practice of the stem cells
Specific	Harvesting and storage of stem cells, their characterization, highlighting
objectives	and exemplifying the protocols of isolation and storage, desires and
	perspectives in tissue engineering at the level of the cervical extremity.

	L	ECTURES			
Teaching	Lecture, systematic, interactive presentation				
methods	Oral presentations, Power-Point presentations				
Content	1.Stem cells- morphophysiology concepts.				
	2. Oral cavity stem of	cells harvesting protocol.			
	3. Stem cells charact	terization.			
	4. Stem cells passage	e.			
	5. Stem cells storage	· ·			
		s and growth factor's impl	ications.		
		g and matrix applications.			
	8. Oromaxillofacial	structure's regeneration.			
		neural structures regenerat			
	10. Oromaxillofacial soft and striatum muscular tissue regeneration.				
	11. Oromaxillofacial vessel's regeneration.				
	12. Dental structure's regeneration.				
	13. Periodontal structure's regeneration				
	14. Oral cavity bone structure's regeneration.				
Bibliography	1. Stem cells 3rd Edition. Scientific facts and fiction. Christine				
	Mummery Anja van de Stolpe Bernard Roelen Hans Clevers,				
	2021, Elsevier, eBook ISBN: 9780128226773.				
	2. Dental Stem Cells. Editors: Şahin, Fikrettin, Doğan, Ayşegül,				
	Demirci, Selami (Eds.). 2016, Springer Editure.				
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the	100 %	-	-		
final grade:					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Haţieganu"				
postgraduate studies	Cluj-Napoca				
Faculty	Dental Medicine				
Domain of study	Health				
Academic degree	Dental Medicine in Englis	sh			
Level of course	I and II- License and mast	ters			
Qualification	Doctor of Dental Medicine	e			
Department	4 Prosthetics and Dental n	naterials			
Discipline	Dental Propedeutics and Esthetics				
Cours title	Virtual smile design – techniques and roles in the				
	workflow of esthetic trea	atments			
Responsible for lecture	Conf. Dr. Alexandra Agl	hiorghie	sei		
Responsible for practical					
activity					
The formative category of	DS				
the discipline					
Compulsory discipline	Optional				
Year Sem hours/week	hours/semester	Total	Credits	Type of	

		С	LP/S	С	LP/S	SI			Assessment
5	2	1	0	14	0	36	50	2	V

Pre-conditions	Knowledge of the general principles of dentist-patient-dental					
(Preliminary	technician communication in the field of esthetic perception					
conditions)	Knowledge of the ideal norms of facial esthetics					
	Knowledge of dento-facial esthetics – relations of the dental arches					
	with the face and lips.					
	Knowledge of dental and gingival esthetic norms					
	Notions of Dental Morphology					
	Knowledge of the modern methods of reestablishing the esthetic					
	aspect of the dental arches					
	Notions of patient examination in dentistry					
Requisities for	100 % of the lectures - Compulsory attendance					
lectures and	Amphitheater with multi-media system for projection					
practical						
activities						

Professional	• The ability to use specialized terminology, properly and in context
competences	Knowledge of the particularities of smile design in dentistry
	• Acquiring the ability to apply the dento-facial esthetic principles in smile design
	Knowledge of the different virtual smile design techniques used in practice
	• The ability to create a step-by-step virtual smile design in Smile Cloud
	Knowledge of the applications of virtual smile design in different dentistry specialities
Transversal	Ability to use the information in a new context
competences	Ability to apply the theoretical knowledge on a practical basis
	Ability to establish connections between the studied subjects
General	Acquiring information related to the role of virtual smile design in the
objectives	workflow of esthetic treatments
Specific objectives	Knowledge of the general principles of dentist-patient-dental technician communication in the field of esthetic perception with the help of virtual smile design
	Knowledge of the different virtual smile design techniques used in dentistry
	Knowledge of the steps required in smile design
	Knowledge of the different applications of virtual smile design in dentistry

LECTURES				
Teaching	Interactive PPT presentations			
methods				

Contont	1 Introduction Digita	l acco documentation in	a authoria dantistry				
Content		ll case documentation in					
	_	-	prehensive diagnosis and				
	treatment planning in						
	3. Smile design conce		aurila daniau				
		cs principles applied in					
		•	in practice. Virtual smile				
	_	PP1, Keynote vs dedica	ted platforms for virtual				
	smile design	· C					
		atform. Step-by-step ted					
	7. Smile design as a communication tool between the dentist and the lab technician						
		entist-patient communic	ration tool Patient				
	_	help of virtual smile de					
		interdisciplinary commu					
		virtual 2D design in a 3					
	provisional restoration	_	г				
	11. Smile design appli						
		ed in orthodontics, oral	surgery, orthognathic				
	surgery						
	13. Clinical case prese	entations					
	14. Clinical case prese	entations					
Bibliography	1		ensive Esthetic Dentistry.				
	Quintessence Publ, Berlin 2015						
	2. 2. Levine J. Smile design integrating esthetics and function.						
	Edinburgh: Elsevier; 2016						
	3. Coachman C, Van Dooren E, Gürel G, Landsberg CJ, Calamita MA, Bichacho N. Smile design: From digital treatment planning to						
	clinical reality. In: Cohen M, editor. Interdisciplinary Treatment						
	·						
	Planning. Vol 2: Comprehensive Case Studies. Chicago: Quintessence; 2012. p. 119–74.						
			Dynamic documentation of				
			ile design process. Int J				
		torative Dent. 2017; 37:					
	5. Coachman C, Calamita MA, Coachman FG, Coachman RG, Sesma N. Facially generated and cephalometric guided 3D digital design						
	• •	•	ation: a clinical report. J				
	Prosthet Dent. 20		.				
		-	e design systems: a current				
	review. Int J Comput Dent. 2015; 18:303–17						
	7. Goldstein R, Chu S, Lee E, Stappert C, Goldstein R. Esthetics in						
	dentistry. 3rd ed. Wiley Blackwell; 2018. Chapter 9 – Proportional						
	smile design						
Evaluation:	Written Exam	Practical Exam	Activity during the semester:				
Percent of the	100 0/		semester: %				
final grade:	100 %		70				
mai grade:							

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Haţieganu"					
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualit	fication	1		Doctor	of Dental	Medicii	ne		
Depar	tment			2 Cons	ervative c	dontolog	gy		
Discipline			Orthodontics						
Cours	title			Orthodontics. Dental anomalies					
Responsible for lecture			Lecturer Dr. Cristian Olteanu						
Responsible for practical									
activit	t y								
The fo	ormativ	ve catego	ry of	DS					
the di	scipline	e							
Compulsory discipline		Optional							
3.7			hours/week		hours/semester		Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	1	0	14	0	36	50	2	V

Pre-conditions (Preliminary conditions)	Notions of orthodontics
Requisities for lectures and practical	Amphitheater with a projection system
activities	

Professional	Capacity to properly use speciality terms					
competences						
competences	Knowing the morphology of various groups of teeth					
	 Knowing the morphology of the dental arches 					
	Acquiring notions of norlam oclusion					
	 Acquiring general information about the reference positions of the maxilla and mandible: centric relation, posture, habitual bite 					
	 Acquiring practical experience through the use of specialist instruments for executing the necessary stages in establishing an orthodontic diagnosis 					
	Acquiring necessary practical experience in utilising specialist					
	instruments in the view of manipulating orthodontic appliances					
Transversal	Use of notions from new context					
competences	Establishing a interdisciplinary correlation					
General	Knowledge of dento-maxillary anomalies and possibilities of treatment					
objectives						
Specific	Clinic and complementary examinations					
objectives	Remembering the clinical table for dento-maxillary anomalies and etiological factors implicated in its production					

• Establishing a diagnostic and therapeutic plan

LECTURES				
Teaching	Lecture, systematic interactive exposure			
methods	Oral exposure, power-point presentation			
Content	1. Growth and develo	Growth and development of the dento-maxillary apparatus		
	2. Evolution relation/order of normal occlusion			
	 3. Clinical examination in orthodontics 4. Complementary exams: Study model, examine photostatic, anthropologic 5. Radiologic examinations: methods of analysis of profile teleradiographs 6. Orthodontic terminology classification and diagnostic of dento- 			
	maxillary anomalies	d diagnostic of dento-		
	7. Etiological and Pathogenesis of dento-maxillary anomalies 8. Dento-maxillary anomalies in the transversal plane 9. Dento-maxillary anomalies in the sagittal plane 10. Dento-maxillary anomalies in the vertical plane 11. Dental anomalies 12. Anomalies consisting of consecutive premature loss of temporary and permanent teeth 13. Prophylaxis for dento-maxillary anomalies 14. Indications for treatment in dento-maxillary anomalies. Principals of orthodontic treatments, types of mobile biomechanics devices			
Bibliography	1. Lee W. Graber, Robert L. Vanarsdall, Jr., Katherine W. L. Vig,			
	 Greg J. Huang, Orthodontics: Current Principles and Techniques 6th Edition, Elsevier, 2016 William R. Proffit, Henry W. Fields, Brent Larson, David M. Sarver. Contemporary Orthodontics, 6th Edition, Elsevier, 2018 Martyn Cobourne Andrew DiBiase. Handbook of Orthodontics, Elsevier, 2015 Thilander Birgit, Bondemark Lars Bjerklin. Essential Orthodontics, Willey and Sons, 2017 Ionescu Ecaterina, Manual pentru rezidentiat, vol 2, Editura Universitara "Carol Davila", Bucuresti, 2021 Pop Silvia Izabella, Pacurar Mariana, Bratu Cristina, Olteanu Cristian, Aparate ortodontice, University Press, 2018 			
Evaluation:	Written Exam	Practical Exam	Activity during the	
			semester:	
Percent of the	100%	%	%	
final grade:				

WRITING THE LICENCE THESIS is performed according to the guide published on the univesity's website. This guide is available on the following link: http://www.umfcluj.ro/educatie-med-ro/studenti-mg-ro/licenta-med-ro.