UNIVERSITY OF MEDICINE AND PHARMACY

"IULIU HAŢIEGANU" Cluj - Napoca



UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE IULIU HAȚIEGANU CLUJ-NAPOCA

Faculty of Dental Medicine

ENGLISH STUDY PROGRAM ECTS GUIDE

ACADEMIC YEAR 2022-2023

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STUDY GUIDE

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FACULTY OF DENTAL MEDICINE

ENGLISH STUDY PROGRAM ECTS GUIDE

Academic Year 2022-2023

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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 Hațieganu" 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 Hațieganu, 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 Hațieganu" 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

Hațieganu", 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"

Rector	Prof. Dr. Anca Dana Buzoianu
President of the Senate	Prof. Dr. Daniel Mureșan
Vice-Rector for Postgraduate studies and Residency	Assoc. Prof. Dr. George Călin Dindelegan
Vice-Rector for Didactic Activities	Prof. Dr. Carmen Mihaela Mihu

Vice-Rector for Academic development and University Administration	Prof. Dr. Sorin Claudiu Man
•	Prof. Dr. Mihaela Felicia Băciuț
Vice-Rector for Quality Management	Prof. Dr. Radu Nicolae Oprean
and International Relations Doctoral Studies Responsible	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

	Prof. Dr. Mihaela Hedeşiu
Member	Prof. Dr.Horațiu Rotar
Member	Prof. Dr.Smaranda Buduru
Member	Lecturer Dr. Sanda Cîmpean
Member	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 Hațieganu" 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 Problems	Prof. Dr. Ondine Lucaciu
Vice-Dean for Management and Academic Development	Assoc. Prof. Dr. Marius Manole

Address

Faculty of Dental Medicine, Dean's Office University of Medicine and Pharmacy "Iuliu Hațieganu" 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
- 5. Medical Specialities

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
- 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
- 15. Medical Specialities

4. STRUCTURE OF THE ACADEMIC YEAR 2022-2023

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: compulsory optional and facultative.

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 Ist – VIth year

4.1.1. Undergraduate studies of Ist - Vth year

Dental Medicine (1ST to 5TH Year)

First Semester

03 October 2022 – 16 December 2022	Classes (11 weeks)
19 December 2022 - 02 January 2023	Christmas Holiday (2 weeks)
03 January 2023 – 20 January 2023	Classes (3 weeks)
23 January 2023 – 17 February 2023	Examination Session (4 weeks)
20 February 2023 – 24 February 2023	Winter Holiday (1 week)

Second Semester

27 February 2023 – 09 June 2023	Classes (14 weeks)
	Easter holiday (1 week, 17-21 April 2023)
12 June 2023 – 07 July 2023	Examination session (4 weeks)
11 July 2023 – 14 July 2023	Reexamination Session 1
18 July 2023 – 21 July 2023	Reexamination Session 2
24 July 2023 – 29 September 2023	Medical 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 of VIth year

First Semester

Classes (11 weeks)
Christmas Holiday (2 weeks)
Classes (3 weeks)
Examination Session (4 weeks)
Winter Holiday (1 week)
Classes (14 weeks)
Easter holiday (1 week, 17-21 April 2023)
Examination session (3 weeks)
Reexamination Session 1
Reexamination Session 2
Final license exam Dental Medicine English
and French sections

5. STUDENTS REGISTRATION TO THE FACULTY OF DENTAL MEDICINE

5.1. Registration in the First Year of study

- The enrollment for studies of the candidates admitted and confirmed following the admission methodology of international students, 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 (ME), 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;
 - After verification and approval of the student's personal file by the Ministry of Education;
 - On the basis of the ME 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.

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 ME. 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 2022-2023 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

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.
- High school diploma or echivalent, in original document issued in Romanian, English or French, an authenticated copy of the original document.
- High school Examination Transcript of Records.
- Transcript of records for grades 9-12/13 (only for Non-european)
- 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 ME 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.

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 ME, according to the admission calendar for the current academic year.

Candidates admitted as first year students who fail to register during the period established by the decision of the University Management Board lose the right to be matriculated.

Students who were admitted based on the academic achievements included in their application file can register within a maximum if 30 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 occurrence.

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.

5.2. Registration in the IInd –VIth year of study

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. 40. 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-II, 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-II, the student who totals more than 10 remaining credits for the subjects not promoted, will be enrolled in a complementary year;

For the IIIrd year, enrollment in the higher study year is done only after the accumulation of the 180 credits related to the first 3 years of undergraduate studies. Otherwise, the student is 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	
А	10	Excellent – special presentation, with minor mistakes
В	9	Very good - above average presentation with minor mistakes
С	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 University: Vice-Rector Prof. Dr. Carmen Mihu 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 Hațieganu" 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 two optional courses. Students thus complete an optional course every semester. The optional course is mandatory for study. According to the university curriculum, each optional course is assigned 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 2023, 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. (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 10 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 10 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 2022-2023:

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) For 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. crt.	1 st year 2022-2023 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Anatomy and general embriology	28	28	4	1	Е
2	Physiology	28	28	4	1	Е
3	Biochemistry	14	21	3	1	Е
4	Oral cavity biochemistry	14	21	3	1	Е
5	Hystology (including Cytology)	14	28	3	1	Е
6	Medical informatics and biostatistics	14	28	3	1	Е
7	Medical communication	14	14	2	1	V
8	Hystory of dental medicine	14	-	2	1	V
9	Medical first aid	14	14	2	1	Е
10	Optional course – Risks associated with drug consumption	14		2	1	V
11	Behavioral science	14	14	2	1	V
12	Dental morphology	28	56	6	2	Е
13	Anatomy and embriology	28	42	4	2	Е
14	Physiology	28	28	4	2	Е
15	Hystology (including cytology)	28	28	4	2	Е
16	Biophysics	14	28	3	2	E
17	Cellular and molecular biology	28	28	3	2	E
18	Romanian language	-	56	2	2	С
19	Summer medical practice	-	160	2	2	С
20	Optional course – Medical bioethics	14	-	2	2	V
21	Physical education*	-	28	2*	2	С

Nr. crt	2 nd year 2022-2023 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Dental materials	28	28	6	1	Е
2	Pathology	28	42	5	1	Е
3	Physiopathology. Immunology	28	28	5	1	Е
4	Microbiology (bacteriology. Virusology. Parasitology)	14	28	3	1	Е
5	Morphology of teeth and dental arches	14	28	3	1	Е
6	Ethics and integrity in academia	14	-	2	1	V
7	Genetics	14	14	2	1	Е

8	Medical psychology	14	14	2	1	V
9	Optional course - Oro-dental health of children and adolescents in the context of general health	14		2	1	Е
10	Dental technology	28	56	6	2	Е
11	Dental materials	28	42	5	2	Е
12	Ergonomics	28	28	4	2	Е
13	Periodontology	14	28	3	2	Е
14	Allergology and clinical immunology	14	14	2	2	Е
15	Romanian language	-	56	2	2	С
16	Medical research methodology	14	28	2	2	Е
17	Microbiology (bacteriology. Virusology. Parasitology)	14	14	2	2	Е
18	Medical practice	-	160	2	2	С
19	Optional course- Applied physiopathology	14	-	2	2	V
20	Physical education*	-	28	2*	2	С

Nr. crt	3 rd year 2022-2023 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
1	Restorative odontotherapy	28	56	6	1	Е
2	Dental technology	28	56	6	1	Е
3	Internal medicine	14	28	4	1	Е
4	Oro-dental prevention (preventive dentistry)	28	42	4	1	Е
5	Anesthesia and sedation in dental medicine	28	28	4	1	Е
6	General surgery. Anesthesia and intensive care	14	14	2	1	Е
7	Hygiene	14	14	2	1	Е
8	Optional course - Challenges of young doctors' adaptation to professional practice	14		2	1	V
9	Prosthetic dentistry	28	56	6	2	Е
10	Pharmacology	28	28	4	2	Е
11	Endodontics	28	56	5	2	Е
12	Oro-dental prevention (preventive dentistry)	28	42	5	2	Е
13	Internal medicine	14	28	3	2	Е
14	Radiology – medical imaging	14	28	3	2	Е
15	Medical practice	-	160	2	2	С
16	Optional course - Minimally invasive techniques in pediatric dentistry.	14	_	2	2	v
17	Romanian language – speciality notions		56*	2*	2	С

	Nr. 2rt	4 th year 2022-2023 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation	
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	Restorative odontotherapy					
1		28	42	6	1	Е
2	Occlusion	28	42	5	1	Е
3	Pedodontics	28	42	5	1	Е
4	Prosthetic dentistry	14	42	4	1	Е
5	Infectious disease. Epidemiology	14	28	3	1	Е
6	Radiology – dental imaging	28	28	3	1	Е
7	Optional course - Innovative methods for tissue regeneration in dentistry	14		2	1	v
8	CAD/CAM systems	14	14	2	1	Е
9	Endododntics	28	56	6	2	Е
10	Oral and maxillo-facial surgery	28	42	5	2	Е
11	Prosthetic dentistry	14	42	4	2	Е
12	Oto-rhino-laringology	28	28	3	2	Е
13	Endocrinology	14	14	2	2	Е
14	Neurology. Psychiatry	14	14	2	2	Е
15	Ophtalmology	14	14	2	2	Е
16	Pediatrics	14	28	2	2	Е
17	Medical practice	_	160	2	2	С
18	Optional course - Pre-prosthetic paraclinical investigations	14	-	2	2	V

Nr. crt	5 th year 2022-2023 COURSE	Hours course	Hours LP	Credit s	Semester	Evaluation
1	Oral and maxillo-facial surgery	10	10	6	1	F
1		42	42	6	1	E
2	Periodontology	28	42	5	1	Е
3	Oral rehabilitation	28	49	5	1	Е
4	Dental office management	21	28	3	1	Е
5	Dental implantology	14	28	3	1	Е
6	Esthetics in dental medicine	14	14	2	1	Е
7	Forensic medicine	14	14	2	1	Е
8	Health promotion	14	14	2	1	Е
9	Optional course - Laser applications in dentistry	14		2	1	V
10	Medico-surgical emergencies in dental medicine	28	56	5	2	Е
11	Orthodontics and dento-facial orthopaedics	28	49	5	2	Е
12	Periodontology	28	49	5	2	Е
13	Prosthetic dentistry	28	56	5	2	Е
14	Restorative odontotherapy	14	42	4	2	Е

15	Dermatovenerology	14	14	2	2	Е
16	Medical practice	-	160	2	2	С
17	Optional course - Oral appliances for the treatment of sleep apnea and snoring	14	-	2	2	V
18	Licence thesis elaboration *	-	56	2*	2	Е

Nr. crt.	6 th year 2022-2023 COURSE	Hours course	Hours LP	Credits	Semester	Evaluation
	Oral and maxillo-facial surgery					
1	Medical deontology. Bioethics	20	10	4	1	F
1	Dental implantology	28	42	4	1	E
2		28	42	4	1	E
3	Prosthetic dentistry	42	14	4	1	E
4	Orthodontics and dento-facial orthodontics	28	14	4	1	E
5	Oral rehabilitation	28	14	3	1	Е
6	Oral pathology	28	14	3	1	Е
7	Community and oral health	28	14	3	1	Е
8	Pedodontics	28	14	3	1	Е
9	Optional course - Tips and Tricks- Technical Management of the Dental Office	14		2	1	V
10	Oral and maxillo-facal surgery	14	42	4	2	Е
11	Professional organization and legislation	28	28	4	2	Е
12	Pedodontics - SP		42	3	2	Е
13	Public health in dentistry – SP		42	3	2	Е
14	Physiotherapy in dentistry	14	28	3	2	Е
15	Oral rehabilitation – SP		35	3	2	Е
16	Orthodontics and dento-facial orthodontics - SP		35	3	2	Е
17	Prosthetic dentistry – SP		56	3	2	Е
18	Medical deontology. Bioethics	14	14	2	2	Е
19	Optional course How to choose the dental materials for different prosthodontic cases?	14	_	2	2	V
20	Licence thesis elaboration *	-	56	2*	2	Е

12. COMPULSORY COURSES

1st year

- 1. Anatomy and general embriology
- 2. Physiology
- 3. Biochemistry
- 4. Oral cavity biochemistry
- 5. Hystology (including cytology)
- 6. Medical informatics and biostatistics
- 7. Medical communication
- 8. History of dentistry
- 9. First aid
- 10. Behavioral sciences
- 11. Dental morphology
- 12. Anatomy and embriology
- 13. Physiology
- 14. Hystology (including cytology)
- 15. Biophysics
- 16. Cellular and molecular biology
- 17. Romanian language
- 18. Summer medical practice
- 19. Physical education

2nd year

- 1. Dental materials
- 2. Pathology
- 3. Physiopathology. Immunology
- 4. Microbiology (bacteriology. Virusology. Parasitology)
- 5. Morphology of teeth and dental arches
- 6. Ethics and integrity in academia
- 7. Genetics
- 8. Medical psychology
- 9. Dental technology
- 10. Dental materials
- 11. Ergonomics
- 12. Periodontology
- 13. Allergology and clinical immunology
- 14. Romanian language
- 15. Medical research methodology
- 16. Microbiology (bacteriology. Virusology. Parasitology)
- 17. Medical practice
- 18. Physical education

3rd year

- 1. Restorative odontotherapy
- 2. Dental technology
- 3. Internal medicine

- 4. Oro-dental prevention (preventive dentistry)
- 5. Anesthesia and sedation in dental medicine
- 6. General surgery. Anesthesia and intensive care
- 7. Hygiene
- 8. Prosthetic dentistry
- 9. Pharmacology
- 10. Endodontics
- 11. Oro-dental prevention (preventive dentistry)
- 12. Internal medicine
- 13. Radiology medical imaging
- 14. Medical practice
- 15. Romanian language speciality notions

4th year

- 1. Restorative odontotherapy
- 2. Occlusion
- 3. Pedodontics
- 4. Prosthetic dentistry
- 5. Infectious disease. Epidemiology
- 6. Radiology dental imaging
- 7. Cad/cam systems
- 8. Endododntics
- 9. Oral and maxillo-facial surgery
- 10. Prosthetic dentistry
- 11. Oto-rhino-laringology
- 12. Endocrinology
- 13. Neurology. Psychiatry
- 14. Ophtalmology
- 15. Pediatrics
- 16. Medical practice

5th year

- 1. Oral and maxillo-facial surgery
- 2. Periodontology
- 3. Oral rehabilitation
- 4. Dental office management
- 5. Dental implantology
- 6. Esthetics in dental medicine
- 7. Forensic medicine
- 8. Health promotion
- 9. Medico-surgical emergencies in dental medicine
- 10. Orthodontics and dento-facial orthopaedics
- 11. Periodontology
- 12. Prosthetic dentistry
- 13. Restorative odontotherapy
- 14. Dermatovenerology

15. Medical practice

6th year

- 1. Oral and maxillo-facial surgery
- 2. Dental implantology
- 3. Prosthetic dentistry
- 4. Orthodontics and dento-facial orthodontics
- 5. Oral rehabilitation
- 6. Oral pathology
- 7. Community and oral health
- 8. Pedodontics
- 9. Oral and maxillo-facal surgery
- 10. Professional organization and legislation
- 11. Physiotherapy in dentistry
- 12. Medical deontology. Bioethics
- 13. Pedodontics SP
- 14. Public health in dentistry SP
- 15. Oral rehabilitation SP
- 16. Orthodontics and dento-facial orthodontics SP
- 17. Prosthetic dentistry SP

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.

13.1. Optional courses for students of the Faculty of Dentistry

Academic year 2022 – 2023

SEM COURSE DISCIPLINE

I st I st	Risks associated with drug	Toxicology (Pharmacology)
sem	consumption	
I st II nd	Medical bioethics	Oral Health
sem		
II nd I st	Oro-dental health of children and	Pedodontics
sem	adolescents in the context of general	
~	health	
$\mathbf{H}^{\mathrm{nd}} \mathbf{H}^{\mathrm{nd}}$	Applied Pathophysiology	Fiziopathology
sem		
III rd I st	Challenges of young doctors'	Odontology, Endodontics and Oral
	adaptation to professional practice	Pathology
sem		
III rd II nd	Minimally invasive techniques in	Pedodontics
sem	pediatric dentistry.	
IV th I st	Innovative methods for tissue	Oral Rehabilitation
sem	regeneration in dentistry	
IV th II nd	Pre-prosthetic paraclinical	Prosthetic dentistry
sem	investigations	
V th I st	Laser applications in dentistry	Maxilo-facial surgery and implantology
sem		
V th	Oral appliances for the treatment of	Oral rehabilitation
II nd sem	sleep apnea and snoring	
VI th I st	Tips and Tricks- Technical	Dental propedeutics
sem	Management of the Dental Office	_
VIth	How to choose the dental materials for	Dental materials, ergonomy
II nd sem	different prosthodontic cases?	

COURSE DESCRIPTION

1ST YEAR

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 GENERAL EMBRIOLOGY
Responsible for lecture	Lecturer. Dr. Badea Alexandru
Responsible for practical activity	Teaching Assistant Dr. Budusan Maria
	Teaching Assistant Dr. Herdean Andrei
The formative category of the	DF

discipline									
Compulsory discipline				Compu	ılsory				
Year	Sem	hours C	s/week LP/S	hours/semester C LP/S SI		Total	Credits	Type of Assessment	
1	1	2	2	28	28	44	100	4	E
a	T .	~ ·	1	a 1 1		AT 1 11	1 1 1 .		

Pre-conditions (Prelimit	-	
Pre-conditions (Prelimin conditions) Requisites for lectures a practical activities	 The course is organized for a whole series of students. Students will attend classes at the place and the days set according to the schedule. The student's behavior must be civilized, adapted to academic life. Attendance at the course is mandatory, bein accepted a maximum of 20% absences from 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 win not be tolerated, whether it is anatomical pier or a corpse. 	on g 1 the
	Students are required to participate in the ongoing checks, postponement without goo	d
	reason is not accepted.	
Professional competences	 Mastering anatomical terminology. 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 some notions of medical semiology. 	

Transversal	• Concern for professional development by training critical
competences	thinking skills demonstrated through active participation in the
r · · ·	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,
General objectives	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.
	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 propagations
	preparations.study of imaging anatomy.
	 study of maging anatomy. understanding and deepening the notions of clinical anatomy.
	 understanding and deepening the notions of chinical 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.
	in the period, when is independent for the future definition

LECTURES					
Teaching methods	•	Master class. Interactive presentation of the material according to the analytical program using multimedia means, powerpoint presentations, didactic films, specific software.			

Constant.	1 The able of a material many lists 1 of the table of the
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 methods	Checking the students' theoretical knowledge about the current
	work, proving by the student the knowledge of the dissection
	method, evaluating the way each student works.
Practical activity	Identification of macroscopic anatomical elements on
carried out by	cadaveric parts, macroscopic anatomical preparations,
students	sections, anatomical and imaging 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
	heart. The aortic arch. The cardiac plexus. The heart sampling.
	Preparation of heart vessels. Internal aspect of the heart.
	8. The topography of the mediastinum. The trachea; The esophagus; the
	thoracic lymph duct. The azygos veins system. The thoracic aorta. The

	thoracic sympathet	ic system	
	thoracic sympathet		
	9. Seminary: The th		The new teneral consister
		organs normal position	
			er sac). The liver. The bile
		i. The ileum. The caecu	m and the appendix. The
	colon.		
		*	am and the pancreas. The
		rs. The inferior vena cav	va. The Aorta.
	12. Seminary: The		
			eum. The urinary bladder
	and the rectum. Th	e uterus. The uterine tul	bes and the ovaries. The
	•	e perineum in females.	
			The seminal vesicles. The
	A	•	The posterior perineum. The
	scrotum. The testic	les. The epididymis. Th	e spermatic cord. The
	anterior perineum.		
Bibliography			Arthur F. Dalley, Clinically
	oriented ana	tomy, Sixth Edition,	ISBN 978-1-60547-652-0,
	Wolters Kluw	er Health, 2010	
	2. Gray's Anator	my for Students, Fourth	n Edition, Richard L. Drake ;
	A. Wayne Vo	ogl; Adam W. M. Mite	chell, ISBN 9780323393041,
	Elsvier, 2019		
			Essential Clinical Anatomy,
		/ilkins, 1995, ISBN 0-6	
	4. Mc Minn R.N	M.H Last's Anatomy	Regional and Applied, 8-th
		; Churchill Livingstone.	
			Embryology, 6-th Edition;
	Williams & W		
			atomy, Veb Georg Thieme
	Leipzig, 1985		
			, Treadgold Sylvia, Basic
			The English Language book
		tman, 1984, ISBN 0-27	
	8. • Williams P.	, Warwick R.& Co, G	ray's Anatomy 38th Edition,
		ngstone, 1995, ISBN 0-	
Evaluation:	Written exam	Practical exam	Activity during the
			semester:
			schiester.
Percent of the final	50%	40%	10%

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 Denta	l Medici	ne			
Departmen	nt			2 Func	tional sci	ences			
Discipline				Physio	logy				
Cours title				PHYS	IOLOGY	ζ			
Responsib	le for le	ecture		Associ	ate Profe	ssor Dr	. Teodora	a Mocan	
Responsib	le for p	ractical	activity	Associ	ate Profes	ssor Dr.	Teodora I	Mocan	
				Assist. Dr Moga Adrian					
The forma	tive cat	tegory of	f the	DF					
discipline									
Compulso	ry disci	pline		Compu	ılsory				
37	hours/week		ho	urs/semes	ster	T 1		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	2	2	28	28	44	100	4	E

Pre-conditions (Preliminary conditions)	-
Requisites for lectures and practical activities	 In amphitheatre, with video projection . 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 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.

Transversel					
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	• Clarification and understanding of the difficult and complex 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 methods	Lecture, Systematic Speech, Conversation, Problem				
	solving.				
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. Blood: composition; hematocrit; blood volume; mechanisms of blood				
	volume regulation; acido- base balance of the blood. Blood properties.				
	Plasma: composition; plasma proteins.				

	6. Erythrocytes: structure, number, variations. Hemoglobin: structure,					
	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 gastric secretion. Motility of the gastrointestinal tract.					
	Intestinal absorption.					
	PRACTICAL ACTIVITIES					
Teaching methods	• Interactive Systematic Speech, Problem Solving, Demo,					
	Individual Practical Activity.					
Practical activity	Performing of Laboratory Tests, Data Interpretation, Problem					
carried out by	Solving.					
students						
Content	1. Hematocrit or packed cell volume. Osmosis. The influence of the					
	osmotic pressure on the erythrocyte volume. RBC osmotic resistance.					
	2. Hemoglobin's combinations. Identification of hemoglobin. Total					
	hemoglobin content in the blood. The dosage of the bicarbonate.					
	3. Red blood cells count. Reticulocytes count. Erythrocytes parameters.					
	4. Erythrocyte sedimentation rate. Blood and plasma density.					
	Electrophoresis of plasma proteins.					
	5. Blood typing: ABO, Rh. Transfusions.					
	6. White blood cell count. White blood cell differential count.					
	7. Platelet count. Bleeding time. Rumple-Leeds compression test.					
	8. Coagulation time. Quick time. Howell time.					
	9. Neuron physiology (simulations): excitability, conductibility,					
	threshold, summation.					
	10. Muscle physiology (simulations): role of the motor end plaque in					
	the muscle fatigue. Muscle contractions.					

	11. The electrocardiog	grm.				
	12. Blood pressure mo	onitoring.				
	13. Urine analysis.					
	14. Spirometry: lung v	volumes and capacities.				
Bibliography	1. Marieb EN, Hoehn K, Anatomy and physiology, Pearson, 2013.					
	Despopoulos A, Silbe	ernagl S. Color atlas of p	physiology, Thieme, 2003.			
	2. Widmaier EP, Raf	f H, Strang KT, Vander	's Human physiology The			
	2	function, McGraw-Hill,				
		siology, McGraw-Hill, 2				
		·	omy and physiology, John			
	Wiley&Sons Inc, 2009.					
	5. Dee Unglaub Silverthorn, Human physiology: An integrated					
		-	JE, Textbook of medical			
	physiology, Elsevier,					
	6. Escot-Stump S, Mahan LK, Krause's Food nutrition and therapy,					
	Elsevier, 2007.					
	7. Mitrea D.R. Human Physiology -Laboratory tests. Sibiu, Techno					
	Media, 2006. ISBN (10) 973-7865-24-3. ISBN (13) 978-973-7865-24-					
	3.					
Evaluation:	Written exam	Practical exam	Activity during the			
			semester:			
Percent of the final grade:	80%	10%	10%			

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca						
Faculty				Dental	Medicine	e			
Domain of	study			Health					
Academic	degree			Dental	Medicine	e in Eng	lish		
Level of co	ourse			I and I	I- License	e and ma	sters		
Qualificati	ion			Doctor	of Denta	l Medic	ine		
Departme	nt			3 Mole	cular scie	ences			
Discipline		Medica	al Bioche	mistry					
Cours title	•			BIOCHEMISTRY					
Responsible for lecture		Lecturer Dr. Nistor Tiberiu							
Responsible for practical activity		Vacancy 25 Assistant							
The forma	tive cat	tegory of	f the	DF					
discipline									
Compulsory discipline		Compulsory							
		hours/week		hours/semester		Type of			
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	1,5	14	21	40	75	3	E

Pre-conditions (Preliminary conditions) -

Requisites for lectures and practical	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	• Determinedie	of the concentration of	aclutions				
		of the concentration of					
activity carried	Calculation of pH for acids, bases, buffer solutions.Titration curves.						
out by students			. 1				
		n of serum and urinary	parameters and				
		of the results.					
Content		work safety in the bioc					
		n and different ways of	expressing the				
	concentration of a solu						
		r solutions: definition, e	xamples, pH calculation,				
	medical importance.						
	4. Acid-base titration:	Titration of CH ₃ - COO	OH.				
	Titration of the amino	acids and determination	of pHi: Titration of				
	glycine.						
	5. Principle of colorin	netry. Determination of	total serum proteins				
	(Gornall method). Me		-				
		e assays. Analysis of ser	rum cholinesterase				
	activity. Medical impo						
		ransferase (y-GT) deterr	nination. Medical				
	importance.	(1 -)					
		ion in blood. Glucose to	plerance test. Medical				
	importance.						
		poproteins Determinati	ion of total lipids Medical				
	9. Plasma lipids and lipoproteins. Determination of total lipids. Medical importance.						
	10. Determination of cholesterol and triglycerides. Medical importance.						
	11. Determination of bilirubin. Medical importance.						
		its in urine. Medical impo					
	14. Revision labs.	oonents in urine. Medica	a importance.				
D'I I' I							
Bibliography			stry: theory, analysis and				
	correlation. St. Louis: The C. V. Mosby Company; 1984.2. Bishop ML, Duben-Engelkirk JL, Fody EP. Clinical chemistry:						
			ed. Philadelphia: J.B.				
	Lippincott Company;						
			ey, 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.						
T 1 4*	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:							

Institution for graduate and			Univer	sity of M	edicine a	and Pharm	nacy "Iuliu	ı Hațieganu"		
postgi	postgraduate studies				Cluj-Napoca					
Facult	ty			Dental	Medicine	e				
Doma	in of st	udy		Health						
Acade	emic de	gree		Dental	Medicine	e in Engl	ish			
Level	of cour	se		I and I	- License	and ma	sters			
Quali	fication	l		Doctor	of Denta	l Medici	ne			
Depar	tment			3 Mole	cular scie	ences				
Discipline			Medica	al Biocher	mistry					
Cours title			ORAL CAVITY BIOCHEMISTRY							
Responsible for lecture		Lecturer Dr. Nistor Tiberiu								
Responsible for practical		Vacancy 25 Assistant								
activity										
The fo	ormativ	ve catego	ry of	DS						
the dis	scipline	9								
Compulsory discipline		Compulsory								
NZ	G	hours	/week	ho	urs/semes	ter		a 11	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
1	1	1	1,5	14	21	40	75	3	E	

Pre-conditions (Preliminary conditions)	-
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	Oral presentation, Interactive conversation, Power-Point						
methods	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 metabolism.						
	3. 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						
activity carried	interpretation of the 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 a	aliyany salajum Madia	alimnortance		
8. Salivary amylase determination. Medical importance.				
	alivary phosphatases ac	ctivity determination.		
5	nases activity (GOT an	d GPT) determination.		
Medical importance.				
		lations between diabetes		
12. Salivary proteins	determination. Medical	importance.		
13. Salivary patholog	gical compounds in syst	emic diseases.		
14. Revision labs.				
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. Dev	vlin – Textbook of B	Siochemistry with Clinical		
5				
5. Nistor Tiberiu – Basics in Biochemistry For Dentistry Students. Ed.				
Casa Cartii de Stiintz	a, Cluj-Napoca, 2010.	-		
6. Nistor Tiberiu. Biochemistry. Practical Labs in Dental Medicine.				
Cluj-Napoca: Editura Casa Cartii de Stiinta; 2010.				
Ciuj-ivapoca. Euliui	a Cusa Cartin de Buinta	, 2010.		
Written exam	Practical exam	Activity during the		
5 1				
5 1		Activity during the		
	 5. Determination of s 6. Salivary urea deter 7. Salivary uric acid of 8. Salivary amylase of 9. Determination of s Medical importance. 10. Salivary transami Medical importance. 11. Determination of mellitus and periodor 12. Salivary proteins 13. Salivary patholog 14. Revision labs. 1. Kaplan LA, Pes correlation. St. Loui 2. Bishop ML, Du principles, procedu Lippincott Company 3. Pamela C. Chai Biochemistry, 3rd ed 4. Thomas M. Dev Correlations, sixth e 5. Nistor Tiberiu – H Casa Cartii de Stiint 6. Nistor Tiberiu. H 	 9. Determination of salivary phosphatases ac Medical importance. 10. Salivary transaminases activity (GOT an Medical importance. 11. Determination of salivary glucose. Corre mellitus and periodontal disease. 12. Salivary proteins determination. Medical 13. Salivary pathological compounds in syste 14. Revision labs. 1. Kaplan LA, Pesce AJ. Clinical chemic correlation. St. Louis: The C. V. Mosby Core 2. Bishop ML, Duben-Engelkirk JL, Fod principles, procedures, correlations. 2nd Lippincott Company; 1992. 3. Pamela C. Champe, Richard A. Har Biochemistry, 3rd edition, Lippincott's Illus 4. Thomas M. Devlin – Textbook of B Correlations, sixth edition, 2006. 5. Nistor Tiberiu – Basics in Biochemistry Casa Cartii de Stiinta, Cluj-Napoca, 2010. 6. Nistor Tiberiu. Biochemistry. Practical 		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	Histology
Cours title	HYSTOLOGY (including CYTOLOGY)
Responsible for lecture	Associate Professor Boșca Adina Bianca DMD, PhD
Responsible for practical	Associate Professor Boşca Adina Bianca DMD, PhD
activity	Lecturer Constantin Anne Marie MD, PhD

				Assista	int Conea	c Andrei	i MD, Phl	D	
The formative category of			DF						
the discipline									
Comp	Compulsory discipline			Compu	ılsory				
	q	hours/week		ho	urs/semes	ster	T 1		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	2	14	28	33	75	3	Е

Due conditions	
Pre-conditions	-
(Preliminary conditions)	
Requisites for lectures and practical activities	Attendance to lectures is mandatory 70%, equivalent to 10 attendances during the semester.
and 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 portfoliog					
	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 				
Transversal competences	 and organs. To demonstrate the interest for the professional performance by the acquirement of a critical reasoning. To prove the ability to use the digital devices for medical research To achieve communicating abilities. 				
General objectives	• Students will be able to use their theoretical knowledge in Histology in a clinical context, in order to acquire a proper integrated medical reasoning.				
Specific objectives	 Students will be able to: 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	eaching 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. Clinical					

	correlations.					
	5. CONNECTIVE TISSUES Part two. Ground Substance. Fibers.					
	Interstitial fluid. Structure in LM and EM. Clinical correlations.					
	6. CONNECTIVE TISSUES Part three. Classification. Embryonic					
	connective tissues. Proper connective tissues: loose, dense irregular,					
	dense regular, elastic. Structure in LM and EM. Clinical correlations.					
	7. CONNECTIVE TISSUES Part four. Specialized connective tissues:					
	reticular tissue, adipose tissues: white and brown. Structure in LM and EM. Clinical correlations.					
	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.					
	Clinical correlations.					
	9. CONNECTIVE TISSUES Part six. Specialized connective tissues:					
	bone tissue: general characteristics, cells, bone matrix. Structure in LM					
	and EM. Clinical correlations.					
	10. CONNECTIVE TISSUES Part seven. Types of adult bone: spongy					
	bone, compact bone, ossification. Structure in LM and EM. Clinical					
	correlations.					
	11. MUSCLE TISSUES. Part one. Overview. Classification. Skeletal					
	muscle. Structure in LM and EM. Clinical correlations.					
	12. MUSCLE TISSUES. Part two. Smooth muscle. Structure in LM					
	and EM. Clinical correlations.					
	13. NERVOUS TISSUE. Part one. Neurons and glial cells. Structure					
	in LM and EM. Clinical correlations.					
	14. NERVOUS TISSUE. Part two. Nerve fibers. Nerve as an organ.					
	Structure in LM and EM. Clinical correlations.					
	PRACTICAL ACTIVITIES					
Teaching	Systematic and interactive presentations, demonstrations,					
methods	exercises, case reports, demonstrations of virtual histology.					
Practical	• Examination of the histological preparations, interpretation of					
activity carried	histological images, establishing the histological diagnosis,					
out by students	discussing the aspects of differential diagnosis, acquiring the					
	knowledge and the practical histological skills.					
Content	1. Histological section.					
	2. Epithelial tissues I. Covering epithelial tissues. Simple epithelia:					
	simple squamous (mesothelium, endothelium), cuboidal and columnar.					
	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					

	 Physiology, Wiley Blackwell, 2014. 7. Berkovitz BKB, HollandGR, Moxham BJ. Oral Anatomy, Histology and Embryology 5th Edition Elsevier, 2017. 8. Nanci A (editor). Ten Cate's Oral Histology Development, Structure, and Function.9th Edition. Elsevier, 2017. 				
Evaluation:	Written exam	Practical exam	Activity during the semester:		
Percent of the final grade:	60%	30%	10%		

Institution for graduate and				Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies				Cluj-N	Cluj-Napoca					
Facult	ty			Dental	Medicine	;				
Doma	in of st	udy		Health						
Acade	emic de	gree		Dental	Medicine	e in Engl	ish			
Level	of cour	se		I and I	- License	and ma	sters			
Quali	fication	l		Doctor	of Denta	l Medici	ne			
Depar	tment			12 Mee	fical educ	ation				
Discipline			Medical informatics and biostatistics							
Cours title			MEDICAL INFORMATICS AND BIOSTATISTICS							
Responsible for lecture			Assoc. Prof. Dr. Cosmina Ioana Bondor							
Respo	nsible f	for pract	tical	Assoc.	Prof. Dr.	Cosmin	a Ioana B	ondor		
activit	activity				er. Dr. Tu	dor Căli	nici			
The formative category of				DC						
the discipline										
Compulsory discipline			Compulsory							
	Sem	hours/week		ho	urs/semes	ter			Type of	
Year		Sem	ear Sem C	С	LP/S	C	LP/S	SI	Total	Credits
1	1	1	2	14	28	33	75	3	E	

Pre-conditions (Preliminary conditions)	• Using PC: internet browsing and editing text-based documents.
Requisites for lectures and practical activities	 Presence: the provisions of the regulations for the teaching 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.
	computers.
	• To perform inference statistics on medical data using computers.
Transversal	• To use computers for communication with patients, colleagues
competences	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	At the end of the course, students will be able to:
objectives	• 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 regults using Microsoft Office
•	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 so	lving using softwar	e				
activity carried		0 0					
out by students	• Each student fills in a portfolio of practical work solved on the computer.						
Content	1. Introduction. Protection during the practical activity in the laborator.						
content		ctices for using the					
			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						
			statistics in Excel).				
		A	contingency tables using advanced				
	analysis tools.	frequency tables / t	contingency tables using advanced				
		otions of probabilit	y theory. Analysis of the				
	• •	-	dical association indicators,				
	•••	ignostic performance					
		rence using the con					
			opulation means, hypothesis tests				
		v 1 1	ced Excel analysis tools.				
	· · ·		tative variables: the chi-square test.				
		-	alysis using advanced Excel				
		inear regression and	arysis using advanced Excer				
	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 anieucal 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 example						
Bibliography			th E, Brigl B, Hellrung N, Jahn F.				
2.08. «P)			nitectures and Strategies. 2nd ed.				
	London: Springe	-	6				
			for oral healthcare. Ames, Iowa:				
	Blackwell Munk		· · · · · · · · · · · · · · · · · · ·				
		tions / practicals:					
	1.Course presentations for students of the dental medicine faculty (RO						
	/ EN / FR) [online] 2002-2021. Available from URL:						
	2. Practical work in Medical Informatics and Biostatistics -						
	students of the Faculty of Dental Medicine (RO / EN / FR) [online						
	2002-2020.						
Evaluation:	Written exam	Practical exam	Activity during the semester:				
	70%	30%	is quantified in the calculation				
Percent of the			of the mark for the written and				
final grade		practical exam					
			Practical Chann				

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgraduate studies				Cluj-N	Cluj-Napoca				
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	emic de	gree		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			12 Mee	dical educ	ation			
Discip	oline			Medica	al skills –	Human	sciences		
Cours	title			MEDI	CAL CO	MMUN	ICATIO	N	
Responsible for lecture			Associate Professor Dr. Codruța Alina Popescu						
				CF13					
-		for pract	tical	Asist 7					
activit	t y			Assisting Professor Dr. Simona Călinici					
				Vacant Asist Asist 8					
				Assisting Professor Drd. Tegzeşiu Ana Maria					
The formative category of			DC						
the discipline									
Compulsory discipline			Compulsory						
	Sem	hours/weel	/week	ho	urs/semes	ster			Type of
Year		С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	1	1	1	14	14	22	50	2	V

Pre-conditions (Preliminary conditions)	• Abilities to speak and write in English.
Requisites for lectures and practical activities	 Room with video projection system. Course: power-point presentation, offered to students. 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.

Chudanta will according to in the new distribution between
• 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	• To know and reproduce the basic theoretical notions						
competences	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						
	procedures.						
	• To choose the appropriate way of communication during						
	dental procedures.						
Transversal	• To apply critical thinking skills in new and complex						
competences	situations.						
	• To know and reproduce the basic notions presented in the						
	course; known / new notions, basis of understanding; notions /						
L	······································						

	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 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						
G 19	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 information information in						
	medical practice (use of medical jargon, infantilization in communication with the elderly)						
	communication with the elderly).						
	 Recognize the emotional impact of wearing a prosthesis. Describe and practice the skills peeded to handle difficult 						
	• Describe and practice the skills needed to handle difficult conversations.						

	LECTURES		
Teaching methods	• Systematic lecture / Oral presentations with PowerPoint support 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				
out by students	work, 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.				
D ¹¹ 1	14. Receiving and providing feedback.				
Bibliography	1. Popescu C A, Armean SM, Curs de comunicare medicală pentru				
	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				
	Publishing Co, Inc. Kindle Edition, 2015.				
	3. Lloyd, M, Bor, R, Noble, L. Clinical communication skills in				
	medicine, Elsevier, 2019. 4. Fielde James Pro Clinical Dantal Skills et glange Willow Blackwall				
	4. Fields James Pre-Clinical Dental Skills at glance Willey Blackwell,				
	2016. 5. Travia M. Nelson - Jassias P. Wahh Dantal Cara for Children with				
	5. Travis M. Nelson, Jessica R. Webb Dental Care for Children with				
	Special Needs A Clinical Guide, Springer, 2019.				
	6. G.G.Kent , A.S. Blinkhorn , The Psychology of Dental Care,				

	 Butterworth-Heinemann, 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 examPractical examActivity during the semester:			
Percent of the final grade:	50%	25%	25%	

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca							
Facult	Faculty			Dental	Dental Medicine					
Doma	Domain of study			Health						
Acade	emic de	gree		Dental	Medicine	e in Engl	ish			
Level	of cour	se		I and I	- License	e and ma	sters			
Quali	fication	l		Doctor	of Denta	l Medici	ne			
Depar	tment			12 Mec	lical educ	cation				
Discip	line			Medical skills – Human sciences						
Cours title		HISTORY OF DENTISTRY								
Responsible for lecture		Prof. Dr. Cristian Bârsu								
Respo	Responsible for practical		-							
activit	t y									
The fo	ormativ	ve catego	ry of	DR						
the dis	scipline	9								
Compulsory discipline		Compulsory								
* 7	_ hours/week		ho	urs/semes	ster	T 1		Type of		
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	
1	1	1	0	14	0	36	50	2	V	

Pre-conditions (Preliminary conditions)	 Basic knowledge of general history. Correct understanding and proper oral and written expression in English.
Requisites for lectures and practical activities	 Students should not have cell phones open during the 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 most important achievements in the history of dental
objectives	medicine and the personalities that marked its evolution.
	• To know the basic terminology of the History of Medicine, especially of dental medicine.
	• To obtain the correct understanding of the correlations between dental medicine and different sciences and arts.
Specific	• To create the notional basis needed to understand the different aspects
objectives	of the current stage of dentistry, based on its evolution of the past centuries.
	• To get the possibility for having the overall assessment of the evolution of dentistry in the following decades.

	LECTURES				
Teaching	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. Particularities of				
	documentation in the history of dental medicine.				
	3. Folk medicine.				
	4. Medicine in primitive commune. First empirical attempts to treat				
	dental diseases.				
	5. Selected medical and dental practices: Ancient Egypt and				
	Mesopotamia.				
	6. Medicine and dentistry in ancient Greece. Greek-Roman medicine.				
	Celsus's buco-maxillo-facial surgical techniques.				

Evaluation: Percent of the	 ancient times https://pdfs.semantics 353d876b38.pdf. 5. Morris T. The Curiosities from the 2019. 6. Taylor J. A. Histor 	until the scholar.org/b033/e1024b Mystery of the Explo History of Medicine, y of Dentistry: A Practic	20th century, b35814e1ed0c085a0e96 oding Teeth and Other Bantam Press, London, cal Treatise for the Use of	
	ancient times https://pdfs.semantics 353d876b38.pdf. 5. Morris T. The Curiosities from the 2019. 6. Taylor J. A. Histor Students and Practitic	until the scholar.org/b033/e1024b Mystery of the Explo History of Medicine, y of Dentistry: A Practic oners, Nabu Press, Charle	20th century, b35814e1ed0c085a0e96 oding Teeth and Other Bantam Press, London, cal Treatise for the Use of eston, 2013.	
Bibliography	 https://pdfs.semanticscholar.org/b033/e1024bb35814e1ed0c085a0e96 353d876b38.pdf. 5. Morris T. The Mystery of the Exploding Teeth and Other Curiosities from the History of Medicine, Bantam Press, London, 2019. 6. Taylor J. A. History of Dentistry: A Practical Treatise for the Use of Students and Practitioners, Nabu Press, Charleston, 2013. 			
	 7. Byzantine medicine. Medicine in Western Europe and in Arab countries during Middle Ages. Medieval dental instruments. 8. Medicine during the Renaissance. The guilds of barber surgeons. Dentistry in medieval surgery. Ambroise Paré and his progress in conservative and surgical dentistry. 9. Dentistry in the 18th century. Pierre Fauchard and the training of modern dentistry. Dental schools in France, Germany and England in the 18th century. 10. The foundation of dental prostheses and of dental anesthesia in the 19th century. 11. The progress of dentistry in the first half of the 20th century. 12. The beginnings of Romanian medical literature. The first Romanian dentists. 13. The first important Romanian dentists. The Romanian dental 			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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

Qualifica	cation		Doctor	Doctor of Dental Medicine					
Department			7 Surgery						
Discipline			Anesth	esia and I	Intensive	e Care Un	it		
Cours title			FIRST	AID					
Responsi	ole for l	lecture		Lectur	er Dr. C	laudiu Z	Zdrehuş		
Responsi	Responsible for practical		Lecture	er Dr. Cla	udiu Zd	rehuş			
activity		Assistant Dr. Alexandru Alexa							
The form	The formative category of the		DS						
discipline	discipline								
Compulse	ory disc	pline		Compu	ılsory				
X 7	~ hours/week		ho	urs/semes	ster	T (1		Type of	
Year	Sem C LP/S		C	LP/S	SI	Total	Credits	Assessment	
1	1	1 1 1		14	14	22	50	2	E

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

Professional competences	• First Aid and medical assistance in emergency medicine.
Transversal competences	• Knowledge's and practical skills which are necessary for the 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. Comatose patient.			
	3. Cardio-pulmonary resuscitation (BLS) and defibrilation.			
	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 ACTIVITIES
Teaching methods	Practical lessons, virtual simulations, case discussions, practice on manikines.
Practical activity carried out by students	 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.
	 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. 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.
	8. Rautek manouver (first aid for road traffic accident)
	immobilisation of the cervical spine: indications, cautions, technique,
	material.
	9. Positioning the comatose patient : waiting and transport position,
	indications and technique
	10. Positioning the comatose patient : waiting and transport position,
	10. roshoning the contaitse patient : waiting and transport position,

	indications and technic	que.			
	11. Peripheral venous access and establishing an infusion set:				
	indications, material, technique, complications. Intramuscular and				
	subcutaneous injections.				
	12.Peripheral venous access and establishing an infusion set:				
	indications, material, t	echnique, complications.	Intramuscular and		
	subcutaneous injection	ons.			
	13. Recapitulation. Team work for CPR scenario.				
	14. Recapitulation. Team work for CPR scenario.				
Bibliography	1. Nolan J. 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 final	50%	50%	-		
grade:					

Institution	nstitution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgradu	postgraduate studies		Cluj-Napoca						
Faculty				Dental	Medicine	e			
Domain o	f study			Health					
Academic	degree	9		Dental	Medicine	e in Engl	ish		
Level of c	ourse			I and I	- License	and ma	sters		
Qualificat	tion			Doctor	of Denta	l Medici	ne		
Departme	ent			1 Maxi	lloFacial	Surgery	and Radi	ology	
Discipline	•			MaxilloFacial Surgery and Implantology					
Cours titl	Cours title		BEHAVIORAL SCIENCES						
Responsil	ole for l	ecture		Lecturer Dr. Armencea Gabriel					
Responsil	ole for j	practical	l	Vacancy position Assist. Prof. pos. 39					
activity									
The form	ative ca	tegory o	of the	DC					
discipline	discipline								
Compulsory discipline		Compulsory							
N 7	Year Sem	hours/week		ho	ours/semester		0 1	Type of	
Year		С	LP/S	C	LP/S	SI	[Total C	Credits	Assessment
1	1	1	1	14	14	22	50	2	V

Pre-conditions (Preliminary conditions)	-	
Requisites for lectures and practical activities	• Lectures will be held in a projection system – equipped amphitheater.	

•	If required: the educational platform of the university.
	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 competences	 Utilizing the assimilated notions in new contexts. Applying theoretical notions in practical activities. Establishing interdisciplinary correlations within the studied fields. Obtaining the ability to efficiently communicate with the patient. Expanding their pursuit of professional improvement by training their analytical and sythetical thinking. Demonstrating their involvement in research activities, for instance scientific research.
General objectives	 The course offers Ist year Dental Medicine students the chance to 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 objectives	 Obtaining the necessary knowledge for social and professional 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 methods	Lecture, systematic, interactive presentation. Oral			
8	presentations, 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 methods	Power-Point presentations, interactive teaching.			
Practical activity	Scheduled interactive learning.			
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.			
	3. Ethics, morality and medical deontology. The 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 Aggistange in shue	nia and tamminal illnagaa	Madiaina and valiaian	
		nic and terminal illnesses		
		and Christian morality. T	ne ethics of preventive	
	medicine and health p		~	
		ne and health promotion p	orograms. Continual	
	medical education.			
Bibliography	1. Miu N - Științele	comportamentului, Edit	. Medicală Universitară	
	"Iuliu Hațieganu" Clu	uj-Napoca, 2004.		
	2. Iamandescu IB – I	Psihologie medicală, Edit	. Infomedica, București,	
	1997.			
	3. Schmalbach I, He	erhaus B, Pässler S, et a	l. Cortisol reactivity in	
		xia nervosa after stres	-	
	1	Transl Psychiatry. 2021	-1	
		10(1):275. Published	• · · · · -	
	doi:10.1038/s41398-0		101	
		and Behavioral Medicin	e 2021 Vol 9 No 1	
	582–599.	and Denavioral Medicin	ie, 2021, 101. 9, 110. 1,	
	5. Beutel et	al. BMC Psychiat	ry (2018) 18:375,	
		6/s12888-018-1956-8.	19 (2010) 10.575,	
		I. Psychology as a Sc	vience of Subject and	
	Comportment, beyond the Mind and Behavior. Integr Psychol Behav Sci. 2018 Mar;52(1):25-51. doi: 10.1007/s12124-017-9408-4. PMID: 29063995; PMCID: PMC5846864.			
	7. Cingl L. Social learning under acute stress. PLoS One.			
	2018;13(8):e0202335.Published2018Aug22.doi:10.1371/journal.pone.0202335.8. Achnak S, Schippers A, Vantilborgh T. To deny, to justify, or to			
	1 0	accounts influence stress		
		ontract breach?. BMC		
	Published 2021 Jan 6. doi:10.1186/s40359-020-00505-2.			
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the final		_	100%	
grade:	-	-	100/0	

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"		
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	Sef Lucr.dr.Botos Alexandra		

activity			Asist d	r.dr. Alex r. Clichic r. Laura 2	i Andra	recu			
The form discipline	The formative category of the discipline			DS	DS				
Compuls	Compulsory discipline		Compu	Compulsory					
Year	Year Sem C LP/S			ho C	urs/semes	ster 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 lectures	• Attendance 70%.
and practical activities	• Amphitheater with projection system.
-	Compulsory attendance of 100%.
	Protective medical outfit.
	• Required items at the beginning of the semester.
	• Completion by the student of the drawing portfolio and
	practical modeling activities, according to the curricula.
Professional	The strenge of morphology notions of permanent namen teen and
competences	structure of odonto-periodontal unit.
•	The strenge of the morphology of the temporary and permanent
	dental arcades, appreciated according to the developmental
	periods.
•	
	temporary and permanent arches.
	riequining general information about manafourar maximary
	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.
	knowledge of morphology of teeth and dental arches.
	specialized instruments for the execution of dental morphology
	modeling steps using different materials as a substrate.
Transversal	
competences	context.
competences	
	Establishing interdisciplinary correlations within the studied
	domains.

General objectives	• Providing information on the morphology and normal functionality of teeth, dental arches, oral cavity and dento-maxillary system.
Specific objectives	 Acquiring the notions of morphology of the permanent 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 mandibularmaxillary 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.
	 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.

	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.			
	13. 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.			
	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	(software dedicated to the learning of dental morphology). Exercises on			
carried out	dental drawing and carving, in different materials, methods and			
by students	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.			
	2. 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.			
Bibliograph	1. Dudea D. Dental Morphology- Lecture syllabus – Electronic formate-			
У	2022-23.			
	2. Scheid R.C, Weiss G, Woelfel's Dental anatomy, Enhanced 9th Edition,			
	Jones and Bartlett Publishers, 2020.			
	3. Scheid R.C, Weiss G,- Woelfel's Dental anatomy, 9th Edition,			
	Williams & Wilkins, 2017.			

	 Brandt R.W., Isselhard D.E Anatomy of Orofacial Structures – Enhanced Seventh edition. Mosby, St.Loius, 2018. Okeson J.P Management of Temporomandibular Disorders and Occlusion. 8th edition. Mosby, St. Louis, 2019. Nelson SJ, Ash M.M. Wheeler's dental anatomy, Physiology and occlusion, 11th Edition, Philadelphia, W.B.Sanders, Elsevier 2019. 			
Evaluation:	Written exam			
Percent of the final grade:	50%	25%	25%	

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu					
postgraduate studies			Hațieganu" Cluj-Napoca						
Faculty				Dental	Medicin	e			
Domain o	of study	7		Health	l				
Academi	c degre	e		Dental	Medicin	e in Eng	lish		
Level of o	course			I and I	I- License	e and m	asters		
Qualifica	tion			Doctor	r of Denta	al Medic	eine		
Departm	ent			1 Anat	omy and	Embrio	logy		
Disciplin	e			Anator	my and E	mbriolo	gy		
Cours tit	Cours title			ANATOMY AND EMBRIOLOGY					
Responsi	Responsible for lecture			Lecturer Dr. Alexandru Badea					
Responsi	Responsible for practical			Teachi	ing Assist	ant Dr.	Budusan	Maria	
activity				Teachi	ing Assist	ant Dr.	Creteanu	Razvan	
The form	ative c	ategory	of the	DF					
discipline	9								
Compulsory discipline			Compulsory/ optional/facultative						
* 7	TT C		s/week	ho	urs/semes	ster	T (1	a 11	Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total Credit	Credits	Assessment
1	2	2	3	28	42	30	100	4	E

Pre-conditions (Preliminary conditions)	-
Requisites for lectures and practical activities	 The course is organized for a whole series of students. 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	 Mastering anatomical terminology. Acquisition by the student of an adequate medical language.
competences	
	• 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
	some notions of medical semiology.
Transversal	• Concern for professional development by training critical
competences	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	 Topographic regions chap. 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 sympathy5. Pharynx, larynx. Thyroid, parathyroid glands. Head-neck
	 vascularization. 6. Cranial nerves 1. 7. Cranial nerves 2. Anatomical landmarks in oral anesthesia.
	 Crama nerves 2. Anatomical fandmarks in oral anestnesia. Bevelopment of the head and neck. Anomalies 1. Development of the head and neck. Anomalies 2.
	10. General nervous system. Spinal cord. 11. The brainstem. Cerebellum.
	12. The diencephalon. Cerebral hemispheres. Blood supply of the central nervous system.

	13. Development of the central nervous system. Anomalies.					
	14. Sectional anatomy.					
	PRACTICAL ACTIVITIES					
Teaching methods	• Checking the students' theoretical knowledge about the current work, proving by the student the knowledge of the dissection method, evaluating the way each student works.					
Practical activity carried out by students	• Identification of macroscopic anatomical elements on cadaveric parts, macroscopic anatomical preparations, sections, anatomical and imaging 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. The orbit. The nasal cavity. The infratemporal. The temporal and the pterygopalatin fossa.					
	3. 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.					
	 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. 					
	5. 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.					
	6. 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.					
	7. 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.					
	8. The tongue. The lingual nerve, the lingual artery. Dissection of the lingual artery. The sublingual gland, the sublingual space, the glossopharyngeal nerve. The larynx.					
	 9. The external nose. The nasal fossa. The paranasal sinuses. Dissection of the maxillary sinus. The maxillary nerve. The temporo – mandibular joint. The ophthalmic nerve. 					

Bibliography	 cord. Spinal ga the spinal cord. 11. The membran subarachnoid si the dura mater. the skull. The peduncles. 12. External aspect cranial nerves. external aspect prosencephalon Corpus callosur 13. The third vent Telencephalon. Pitres sections. structure. The regions. Synthe 14. The eyelids and The occulomot nerve. The abd ophthalmic arte The vestibuloco 1. Moore Keith L, oriented anatom Wolters Kluwer H 2. Gray's Anatomy A. Wayne Vogl; Elsvier, 2019. 3. Moore Keith L., Williams & Wilk 4. Mc Minn R.M.H Edition, 1990; Ch 5. Sadler T.W., La Williams & Wilk 6. Schumacher G-H Leipzig, 1985. 7. Smith Wendel O Human Embriolo society and Pitma 8. Williams P., Wa 	hes and blood supply pace. The subarachnoid c The vessels and the crani e hypophysis. Section t t of the brain stem. The The structure of the br t, relations, structure. The the structure of the ce m and lateral ventricles. The tricle. The structure of Dissection of the insul The corpus striatum, extent structure of the cerebration estimation of the insul the corpus striatum, extent structure of the cerebration of the nervous pathway d the lacrimal apparatus. I for nerve. The Trochlear fucens nerve. The eyeball ery. The external and midd ochlear nerve. Agur Anne M.R., Arthur ty, Sixth Edition, ISBN Health, 2010. for Students, Fourth Editi Adam W. M. Mitchell, Agur Anne M.R., Essen ins, 1995, ISBN 0-683-06 I Last's Anatomy Region urchill Livingstone. angman's Medical Embr	e and blood vessels of of the brain. The isterns. The sinuses of al nerves at the base of hrough the cerebral apparent origin of the ain stem. Cerebellum: e fourth ventricle. The rebral hemisphere. The <u>ne fornix.</u> the Diencephalon and ar lobe. Brissaud and ernal configuration and l hemisphere. Cortical /s. Dissection of the orbit. nerve. The ophthalmic l. The optic neve. The le ear. The internal ear. F. Dalley, Clinically N 978-1-60547-652-0, on, Richard L. Drake ; ISBN 9780323393041, tial Clinical Anatomy, 128-3. onal and Applied, 8-th yology, 6-th Edition; r, Veb Georg Thieme eadgold Sylvia, Basic English Language book 66-9. Anatomy 38th Edition,
Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	50%	40%	10%

Institutio	stitution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgradu	postgraduate studies			Cluj-Napoca							
Faculty				Dental	Medicine	e					
Domain o	of study			Health							
Academic	c degree	9		Dental	Medicine	e in Engl	lish				
Level of c	ourse			I and I	- License	e and ma	sters				
Qualificat	tion			Doctor	of Denta	l Medici	ine				
Departme	ent			2 Func	tional sci	ences					
Discipline	Discipline			Physiology							
Cours titl	e			PHYSIOLOGY							
Responsil	ble for l	ecture		Associate Professor Dr. Teodora Mocan							
Responsil	ble for j	practical	l	Associ	Associate Professor Dr. Teodora Mocan						
activity				Assista	nt Profes	sor Dr. 1	Moga Adı	rian			
The form	ative ca	tegory o	of the	DF							
discipline	discipline										
Compulsory discipline			Compulsory								
3.7	Year Sem hour C		s/week	hours/semest		ster	T 1	a 11	Type of		
Year			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	•	Abi	ility in	n adequate ut	ilization of the	med	ical terminolo	gy.
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.

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.						
	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.						
	PRACTICAL ACTIVITIES						
Teaching methods	Interactive Systematic Speech, Problem Solving, Demo, Individual						
0	Practical Activity.						
Practical activity	Performing of Laboratory Tests, Data Interpretation, Problem Solving.						
carried out by							
students							
Content	1. Salivary pH. Salivary buffer systems.						
Content	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.						
1	11. Reflex areas. The ocular-cardiac reflex.						

	12. The oral glucose to	olerance test.						
	13. Hypocalcemia teta	iny.						
	14. The exploration of the sensitivity: pain, touch and temperature.							
Bibliography			iology, Pearson, 2013.					
		H, Strang KT, Vander						
		ody function, McGraw						
		iology, McGraw-Hill,						
	-	· .	tomy and physiology, John					
	Wiley&Sons Inc, 200							
	6. Dee Unglaub Silver	rthorn, Human physiol	ogy: An integrated					
	approach, Pearson 20	13.						
	7. Guyton AC, Hall JE, 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 -Laboratory tests. Sibiu, Techno							
	Media, 2006. ISBN (10) 973-7865-24-3. ISBN (13) 978-973-7865-24-							
	3.							
Evaluation:	Written exam	Practical exam	Activity during the					
			semester:					
Percent of the final grade:	80%	10%	10%					

	stitution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca							
Faculty				Dental	Medicine	e				
Domain o	f study			Health						
Academic	c degree	5		Dental	Medicine	e in Engl	lish			
Level of c	ourse			I and I	I- License	and ma	sters			
Qualifica	tion			Doctor	of Denta	1 Medici	ine			
Departme	ent			1 Morp	phologic s	sciences				
Discipline			Histolo	ogy						
Cours titl	e			HYSTOLOGY (including CYTOLOGY)						
Responsi	ble for l	ecture		Associate Professor Boşca Adina Bianca DMD, PhD						
Responsi	ble for j	practical	l	Associate Professor Boşca Adina Bianca DMD, PhD						
activity				Lecture	er Consta	ntin Anr	ne Marie I	MD, PhD		
				Assista	int Conea	c Andre	i MD, Ph	D		
The form	ative ca	tegory o	of the	DF						
discipline										
Compulsory discipline		Compulsory								
V			s/week	ho	urs/semes	ester			Type of	
rear	Year Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
1	2	2	2	28	28	44	100	4	E	

D 114	1
Pre-conditions	-
(Preliminary	
conditions)	
Requisites for lectures	• Attendance to lectures is mandatory 70%, equivalent to 10
and practical	attendances during the semester.
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.
Duofoggional	
Professional	• Ability to properly use the special histology terminology.
competences	• Ability to correctly use the light microscope.

1 I Ulessiullai	• Ability to property use the special instology 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
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 objectives	• Students will be able to use their theoretical knowledge in
Ū	Histology in a clinical context, in order to acquire a proper
	integrated medical reasoning.
Specific objectives	Students will be able to:
1 0	• 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 methods	Conferences, systematic and interactive presentations, Power				
	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					
	5					
	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.					
	14. ENDOCRINE SYSTEM part two: Thyroid gland. Adrenal gland. Structure in LM and EM. Roles. Histophysiology.					
	PRACTICAL ACTIVITIES					
Teaching methods	Systematic and interactive presentations, demonstrations,					
- •••••••••••••••••••••••••••	exercises, case reports, demonstrations of virtual histology.					
Practical activity	Examination of the histological preparations, interpretation of					
carried out by	histological images, establishing the histological diagnosis,					
students	discussing the aspects of differential diagnosis, acquiring the					
	knowledge and the practical histological skills.					
Content	1. Revision: epithelia, CTs, muscle and nervous tissue.					
	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. Digestive system: main salivary glands: serous and mixed salivary					
	glands. Revision : oral cavity and tooth.					
1	9. Digestive system: liver, pancreas. H&E stain and special staining.					

	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 stain and special staining.					
	13. Endocrine system: pituitary gland, thyroid, adrenal gland. H&E					
	stain and special staining. Revision.					
	14. Practical exam.					
Bibliography	Mandatory					
	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: Organs Maria Crisan, Carmen Mihaela					
	Mihu, Carmen Melincovici, Bianca Bosca, Anne Marie					
	Constantin, Andrei Coneac, Ioana Moldovan, Hana Decean .					
	Editura Medicala Universitara "Iuliu Hatieganu", Cluj-Napoca,					
	2015.					
	3. General Histology. Evaluation exercises. Editors: Constantin Anne-					
	Marie, Boșca Adina Bianca. Authors: Constantin Anne-Marie,					
	Boșca Adina Bianca, Mihu Carmen, Crișan Maria, Șușman Sergiu,					
	Şovrea Alina, Mărginean Mariana, Melincovici Carmen, Jianu					
	Mihaela, Moldovan Ioana, Coneac Andrei. Contributors: Lavinia					
	Mocan Rada Suflețel Editura Medicală Universitaă "Iu					
	Hațieganu" Cluj-Napoca 2018.					
	4. Special Histology. Evaluation exercises. Editors: Boşca Adina					
	Bianca, Constantin Anne-Marie. Authors: Boşca Adina Bianca,					
	Constantin Anne-Marie, Mihu Carmen, Crişan Maria, Şuşman					
	Sergiu, Șovrea Alina, Mărginean Mariana, Melincovici Carmen, Jianu Mihaela, Moldovan Ioana, Coneac Andrei. Contributors:					
	Lavinia Mocan Rada Suflețel "Iuliu Hatieganu" Publishing House,					
	Cluj-Napoca, 2018.					
	Optional					
	5. Mescher A.L. Junqueira's Basic Histology. Text and Atlas, 12th					
	edition. Lange Medical Books;Mc. Graw-Hill Medical Publishing					
	Division; 2010.					
	6. Pawlina W. Histology a Text and Atlas, 7th edition, Lipincott Williams & Wilkins. 2016.					
	7. Kumar G.S. Orban's Oral Histology and Embryology, 13 th Edition,					
	2011.					
	8. Hand A.R., Frank M.E. Fundamentals of Oral Histology and					
	Physiology, Wiley Blackwell, 2014.					
	9. Berkovitz BKB, HollandGR, Moxham BJ. Oral Anatomy,					
	Histology and Embryology 5th Edition Elsevier, 2017.					
	10. Nanci A (editor). Ten Cate's Oral Histology Development,					
	Structure, and Function.9th Edition. Elsevier, 2017. eBook.					
L	substate, and I another, an Earthon, Endering, 2017, CEOOR.					

Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	60%	30%	10%

Institutio	n for gr	aduate a	and	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca						
Faculty				Dental	Medicine	e			
Domain o	of study			Health					
Academic	c degree	è		Dental	Medicine	e in Engl	ish		
Level of c	ourse			I and I	- License	e and ma	sters		
Qualificat	tion			Doctor	of Denta	l Medici	ne		
Departme	ent			1 Phari	naceutica	l physic	s		
Discipline	Discipline		Physics Biophysics						
Cours title			BIOPHYSICS						
Responsi	Responsible for lecture			Assoc.Prof. Dr. Nicoleta Simona Vedeanu					
Responsi	ble for _l	practical	l	Assoc. Prof. Dr. Nicoleta Simona Vedeanu					
activity				Lecturer Dr. Iacovita Cristian					
The form	ative ca	tegory o	of the	DF					
discipline									
Compulse	Compulsory discipline		Compulsory						
X 7		hours/week		ho	urs/semes	ster	T 1		Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
1	2	1	2	14	28	33	75	3	E

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 practical activities	Amphitheatre + blackboard and projection system Laboratory room with specific instruments and devices

Professional	• Ability to use properly and in the context the specialized
competences	terminology.
	• Knowledge of physical models, the general principles of mechanics,
	thermodynamics, electromagnetism main laws, optics and structure of matter at atomic and subatomic level.
	 Ability to explain and interpret the theoretical and practical contents
	of physics in an interdisciplinary approach with other 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
	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,
	applications of lasers in dentistry.
Specific	• Students should be able to explain:
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
	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.

LECTURES				
Teaching methods	Lecture, systematic exposition, conversation, questioning			
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.				
	3. Heat transport mechanisms				
	The transport of heat by conduction (Fourier), convection and radiation				
	(radiation laws). Termoregulation at body level.				
	4. Notions of fluids				
	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.				
	6. Colligative properties of the solutions				
	5 . .				
	Osmosis. Medical applications. 7. Biomechanics.				
	Mechanical properties of teeth and dental materials: elasticity modulus,				
	fracture resistance, hardness.				
	8. Sounds				
	Sensory biophysics. Infra- and ultra- sounds. Application in medicine.				
	Weber Fechner law. Doppler effect. Human ear.				
	9. Optical properties of the matter.				
	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.				
	11. Elements of radiation physics.				
	General notions of atomic physics. Fotonic optics. Photoelectric effect.				
	Compton effect. Pair formation.				
	12. Microwaves. Medical X-ray radiography, computer tomography,				
	tomodensitometry.				
	13. Nuclear physics. 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 methods	Lecture, systematic exposition, conversation, questioning,				
	demonstration.				
Practical activity	 Student work in small working teams of 2-3 people. Collecting 				
carried out by	• Student work in small working teams of 2-5 people. Confecting data is team work; calculation, interpretation, graph is individual				
students	work.				
Content					
	Physical measures and units, errors calculation.				
	2. Density determination. Liquids and solids density measurements by				

	pycnometer.				
	3. Viscometers. Hopp	ler viscometer.			
	4. Viscometers. Ostwald viscometer.				
	5. Surface tension coefficient determination - Traube method.				
	5 1	ic heat determination soli	ds and liquids. The		
	melting latent heat coefficient determination.7. Electricity: electrolysis, e.m.f. determination of galvanic element,				
	galvanic cell, pH deter		or garvanic cicinciit,		
		ermination of solution cor	centration.		
		nination of solution conce			
		c determination of concer			
	biological interest.				
	11. Lenses. Optical mi	icroscope.			
	12. Air humidity deter	mination.			
	13. Revision. Exam pr	reparation. Discussion.			
	14. Practical exam.				
Bibliography	1. Lectures and lab materials in electronic format.				
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		tion, Pearson Addison We			
		ysique, Ed. Flammarion, I			
		Davier, B. Gantz, Physic	que pour les sciences de		
	la vie, Ed. Belin,		Consideratii aliniaa si		
		ola, Materiale dentare. ura Casa Cartii de Stiinta,			
		M.I.Isac, C.Tarba, Biof			
	Pedagogica, Buci		izica, Lu. Diuactica si		
	66	bgy and Medicine, 3 rd	edition. P. Davidovits.		
		Science Series Academic			
		Petitclerc, Biophysique			
	Sciences Flamma		,		
	9. Il mondo Fisico,	V. Bacciarelli, P. A. Giu	ustini, Trevisini Editore,		
	Milano, 1.				
		ysique et Biophysique			
		sitara "Iuliu Hatieganu" C			
Evaluation:	Written exam	Practical exam	Activity during the semester:		
Percent of the final	70 %	20 %	10 %		
grade:					
0	1				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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			Cellula	Cellular and molecular biology					
Cours title				CELL	ULAR A	ND MC	LECUL	AR BIOL	OGY
Responsible for lecture				Gheorghe Zsolt Nicula, MD, PhD, Senior lecturer					
Responsi	Responsible for practical			Adrian	Florea, N	AS, PhD	, Professo	or	
activity			Romana Vulturar, MD, PhD, Professor						
			Adina Ancuța Chiș, MS, PhD, Senior lecturer						
			Lucian Frențescu, MD, PhD, Senior lecturer						
			Gheorg	ghe Zsolt	Nicula,	MD, PhD	, Senior le	cturer	
The formative category of the			DF						
discipline	discipline								
Compulsory discipline		Compulsory							
		hours	s/week	hours/semester		_		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
1	2	2	2	28	28	19	75	3	E

Pre-conditions (Preliminary	• Biology, Chemistry at High School level.
conditions)	
conditions) Requisites for lectures and practical activities	 Students will have the phones turned off during the lectures 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

 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 competences	• To understand the basic concepts of the cell organization and the 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).
	• 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 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.
	• 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 objectives	• Students graduating this course will be able to understand the 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 objectives	• Students graduating this course will be able to:
	• Compare the general characteristics of prokaryotes and eukaryotes.
	• 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.
	• 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. Define biological membranes, classify the main types of cell membranes and describe their molecular organization; 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. 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.
 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.
 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. recognize and describe mitosis stages in permanent histochemically stained preparations.

• Recognize and describe the ultrastructure of cellular components based on the study of transmission/scanning
electron microscopy images.
• 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.
 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							
methods	demonstrations, 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,							
activity carried out by students	recognition 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 a continue of	h a a a 111 a a1 4 a a 4 m a 4 m a 4 m a	in also din a modical				
	for recognizing the cellular ultra-structure, inclu-ding medical applications of the electron microscopy.						
Content							
Content	1. The light microscope. The study of cellular movements.						
	2. Special techniques of light microscopy: immersion microscopy and dark field microscopy.						
	3. Special techniques of light microscopy: phase contrast microscopy						
	and fluorescence microscopy.						
		* *	· C' 1 / 1 · 1				
	4. The study of cell components on slides with specific hystochemical						
	stainings. The study of cell inclusions.						
	5. The study of cell division.						
		by study of the cell organe					
		ells and obtaining the isol					
		differential centrifugation					
	•	ribonucleic acid (DNA): e					
	· · ·	d concentration measurem					
	-	y agarose gel electrophore					
		Chain Reaction technique					
	11. Study of mitochon	dria: determination of ox	ygen uptake and of				
	oxidative phosphoryla	tion.					
	12. Lipid extraction from cell membranes and separation of lipid						
	fractions by thin layer chromatography.						
	13. Transmission elect	tron microscopy applied i	n cellular studies.				
	14. Scanning electron	microscopy. Electron mic	croscopy images				
	(electron micrographs)).					
Bibliography	Mandatory bibliogra						
		port in electronic format.					
	 Benga G., Introducere în Biologie Celulară și Moleculară, Ed. Medicală Universitară, Cluj-Napoca, 2005. English practical support în electronic format. 						
	4. Benga G. (sub redacția), Îndrumător pentru lucrările practice de						
	biologie celulară și moleculară, Editura Carpatica, Cluj-Napoca, 1997.						
	Supplementary bibl						
	-	., Hopkin K., Johnson A.,					
		er P., Essential Cell Biolo	ogy, second edition,				
	Garland Publishing, Inc., New York, 2014.2. Lodish H., Berk A., Kaiser C.A., Krieger M., Bretscher A., Ploegh						
		K., Molecular Cell Biolo	gy, 8th edition, Palgrave				
	Macmillan Higher Ed						
Evaluation:	Written exam	Practical exam	Activity during the				
Domoord - 641			semester:				
Percent of the	70%	20%	10%				
final grade:							

postgi	raduate	e 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			
Quali	fication	1		Doctor	of Denta	l Medici	ne			
Depar	tment			12 Me	dical educ	ation				
Discip	oline			Modern languages						
Cours title				ROMANIAN LANGUAGE						
Responsible for lecture			-							
Responsible for practical		Assisting Professor Anda Lăscuș								
activity										
The fo	The formative category of			DC						
the discipline										
Compulsory discipline		Compulsory								
		hours/week		hours/semester		m 1	a	Type of		
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment	
1	1, 2	0	2+2	0	28+28		56	2	С	

Pre-conditions (Preliminary conditions)	-	
Requisites for lectures and practical activities	•	To respect the rules and regulations for 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						
competences	and 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						
objectives	academic medical language						
Specific	• At the end of the seminar, the learner will be capable to:						
objectives	- 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.						
	- express preference, agreement and disagreement.						
	- speak about daily activities.						
	- name the parts of the human body.						
	- express pain.						

- speak about his/ her family.

	PRACTICAL ACTIVITIES						
Teaching	• Interactive teaching and multimedia support						
methods	e a la l						
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. The alphabet. Specific						
	sounds and sound groups.						
	2. Nationalities, greetings and introducing oneself. The verbs to be and						
	to have (affirmative and negative).						
	3. The time. Expressing the date and the time. Days of the week,						
	months of the year, seasons. The weather forecast. Cardinal numbers.						
	4. What are you doing today? Daily activities. Verb groups (I, IV).						
	5. What are you doing today? Daily activities. Verb groups (II, III).						
	6. What are you doing this week? The weekly schedule.						
	7. Means of transport. Frequency adverbs.						
	8. Irregular verbs. 2 nd conjugation verbs.						
	9. What is your career choice? Professions. Activities. Specific goals.						
	The noun (gender, number).						
	10. Let's go to the market! Food types (fruit, vegetables, dairy						
	products, etc.).						
	11. The definite article.						
	12. Let's go to the restaurant! The menu. The indefinite article.13. Revision						
	13. Revision						
	14. Oral test (describing images)						
	15. Outside orientation. In the taxi.						
	16. Where do you live? The house. Objects in the house. Inside						
	orientation – prepositions						
	17. What do you like to wear? Clothes. The adjective. Colours.						
	18. How was your holiday? The past tense simple. Expressions with the past tense simple.						
	19. What are you doing today? How was your day? The daily schedule.						
	Reflexive verbs with pronouns in the Accusative case. Writing a letter.						
	20. The human body (external parts).						
	21. Giving a physical and moral description of a person.						
	22. The adjective – revision.						
	23. At the hospital. The medical and auxiliary personnal.						
	24. The subjunctive mood (without the third person).						
	25. My family. Presentation.						
	26. Future projects. Verbs in the future tense.						
	27. Revision.						
	28. Written and oral tests.						
L							

Bibliography	1. Gogâtă C., Ton	noiagă A., Băgiag A., Co	Δ Δ Δ Δ Δ Δ Δ					
Dibilography		medicală. Sinteze pentr						
		ară Medicală, Cluj-Napoca						
		ágiag A., Coiug A., Gog						
		lă pentru nivel intermed						
		iu Hațieganu", Cluj-Napoc						
		reica A., Tomoiagă A.,						
		în context stomatolog						
		iu Hațieganu", Cluj-Napoc						
		piagă A., Coiug A., Andre						
		iă. Elemente de limbaj me						
		sitară "Iuliu Hațieganu", C	-					
		·						
	5	2001. Brâncuş, G. Ionescu A., Saramandu M., Limba Română. Manual pentru studenții străini. Ediția IV, Ed. Universității din București, 1996.						
	I ,							
	7. Dorobăţ, A., Foto							
	European, 1999.							
	8. Kohn, D., Puls.	Limba română pentru stra	ăini. Iași, Ed. Polirom,					
	2009.	-	-					
		a, I., Vîlcu, D. Manual de						
		I-A2. Cluj-Napoca, Casa C						
		cu sau fără profesor. Ediț	ia 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 Hațieganu"
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	SUMMER MEDICAL PRACTICE
Responsible for lecture	Lecturer Dr. Alexandra Botoş
Responsible for practical	
activity	
The formative category of	DS
the discipline	
Compulsory discipline	Compulsory

•••			s/week	ho	urs/semes	ster		a	Type of
Year	Year Sem C	C	LP/S	C	LP/S	SI	Total Cre	Credits	Assessment
1	2	0	40	0	160		160	2	С

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 competences	Medical practice activities in general medicine units.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. Knowledge of the medical documentation which is used in the medical facility where the summer practice takes place (patient directory, patient charts, primary and special log registries, admission/discharge sheets, referral tickets, medical prescriptions).
	3. Knowledge of, and ability to perform, the charges of the medical staff of the medical facility regarding admission and preparation

			h. Way of being around a				
	previous ones.	ral discussion about t	he current sickness and				
	1	rm the task of medical	staff of processing used				
	medical instrum	ents – was up, digressin	g, disposal of syringes and				
		tion, storage and circuit					
	5. Knowledge of the medical facil	5	aff to keep the hygiene in				
		2	nd sterilization procedures				
	• •		lization methods (devices				
	and sterilization						
		-	oort of biological samples				
	for current labor	-					
	•		ination – palpation, pulls,				
		m, arterial tension, etc.	o the Red Cross manual –				
	bandage use, haemostasis, splinting, medical emergencies.10. Identification of dental instruments used for patient examination.						
		 Knowledge of the dental instruments used for current dental treatments. 1. Knowledge of the structural info of the dental examination unit – structural parts, principle of functioning, correct position for the 					
	structural parts,						
	doctor and for th	1	ode for prevention of				
	contamination of	2. Knowledge of the correct methods for prevention of contamination of the dental practice (the air, dental unit) and spreading of transmissible diseases.					
		aneuvers and attitudes of	of patient care.				
	e		attributions of the dental				
	assistant regarding the preparation for use of dental materials						
	(customized depending on the practice profile).						
Bibliography	-						
Evaluation:	Written exam	Practical exam	Activity during the				
	Witten Cam		semester:				
Percent of the final grade:	100%						

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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

Discip	Discipline				Sport					
Cours	title			PHYSICAL EDUCATION						
Responsible for lecture				-						
Responsible for practical Associate Professor PhD Mihai Ludovic Kiss					Kiss					
activity										
The fo	The formative category of			DC						
the discipline										
Comp	Compulsory discipline			Compu	ulsory/ opt	tional/fa	cultative			
hours/week			ho	urs/semes	ter	T 1		Type of		
Year Sem C LP/S		C	LP/S	SI	Total	Credits	Assessment			
1 1,2 0 1+!			0	14+14		28	2	С		

Pre-conditions (Preliminary conditions)	Minimal motricity skills after graduating the high school
Requisites for lectures and practical activities	 Students will not attend practical courses / activities with open mobile phones. Also, telephone conversations will not be tolerated during the course or practical activities, nor do students leave the gym to take 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	• 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.
Transversal competences	 Applying certain notions and skills acquired in daily activities. 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. Knowledge and application of physical exercise practice in open air for health maintainence. Development of the capacity and habit to practice sistematically

physical exercises as a main component of a healthy lifestyle ("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.

	PRACTIC	CAL ACTIVITIES		
Teaching	• Lecture, explanation, demonstration.			
methods				
Practical				
activity carried				
out by students				
Content	1. General physical de	evelopment.		
		very physical activities (sports activities that	
	require low physical e			
	3. General notions abo	out the game of basketba	11.	
	4. General notions abo	out the game of volleybal	11.	
	5. General notions abo	out the game of football.		
	6. General notions abo	out ball-room dance.		
	7. General notions abo	out aerobic, Tabata and o	other specific body	
	trainings.			
	8. General notions about fitness, bodybuilding.			
	9. General notions about table tennis, badminton.			
	10. Competitive games with different objects in small groups.			
	11. Workshops - gene	<u> </u>		
	12. General notions at	out chess, schi-tourism.		
		garding elements of med	lical gymnastics.	
	14. Final evaluation.			
Bibliography	1. Popovici Cornelia, Kiss Mihai, David Sergiu, Kollos Ciprian, Fotbal			
	 – caiet de lucrări practice 2020. 			
	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.			
	5. M. Kiss, Caiet de lucrări practice: Culturism - Fitness, 2013.6. C. Suciu, Îndreptar de lucrări practico-metodice, 2013.			
F k		urilor de sport practicate		
Evaluation:	Written exam	Practical exam	Activity during the semester:	
			semester:	

Percent of the	-	70 %	30 %
final grade:			

2ND YEAR

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgi	aduate	studies		Cluj-N	apoca			-	_
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	se		I and I	- License	e and ma	sters		
Quali	fication	l		Doctor	of Denta	l Medici	ne		
Depar	rtment			4 Prost	hetics and	d Dental	materials	5	
Discip	oline			Dental	materials	s, Ergono	omics		
Cours title		DENTAL MATERIALS							
Responsible for lecture		Vacant Şef Lucr. 35							
Responsible for practical		Lecturer Dr. Adriana Objelean							
activity		Lecturer Dr. Andrada Voina							
		As 54 Vacant							
		ve catego	ry of	DS					
-	the discipline								
Comp	Compulsory discipline		Compulsory						
V	V G	hours/week		ho	urs/semes	ster	T-4-1	Carlie	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1	2	2	28	28	94	150	6	E

Pre-conditions (Preliminary conditions)	• High school elementary knowledge of organic and inorganic chemistry and physics. Elementary knowledge of biochemistry and teeth morphology.
Requisites for lectures and practical activities	Video projection amphitheater.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. Metals and dental alloys: terminology, presentation forms,			
	classification, structure and thermal behavior.			
	8. Noble and non-noble dental alloys. Titanium.			
	9. Ceramic-compatible alloys. The bond between metal-aesthetic			
	component- theories, principles, imposed conditions.			
	10. Ceramics: composition, properties, classification of ceramic			
	systems.			
	11. Ceramics: technology and clinical applications of PFM and full-			
	aesthetic ceramic restorations.			
	12. Polymers. Resin-based composites: classification, properties,			
	indications. Heat-based polymerization-graphics, conditions,			
	advantages/disadvantages.			
	13. Lab resin-based composites. Classification, composition, properties,			
	indications.			
	14. Fiber -reinforced resin-based composites-clinical indications.			

	PRACTIO	CAL ACTIVITIES		
Teaching	• Interactive discuss	ions and practical demo	nstrations.	
methods		1		
Practical	Performing differe	ent methods and techniqu	es for handling	
activity carried	impression materia	als and interactive discus	sions about practical	
out by students	applications of the	applications of the dental materials' properties in clinical cases.		
Content	1. Classification of de	ntal materials.		
	2. Mechanical propert	ies-stress-strain relation.		
	3. Teeth color choice	using the shade guide.		
	4. Chemical properties	s-solubility.		
	5. General rules of har	ndling the dental materia	ls.	
	6. Rigid impression m	aterials.		
	7. Elastic reversible in	npression materials.		
	8. Irreversible elastic i	impression materials-hyd	lrocolloids-alginate and	
	alginate substitute mat			
	9. Irreversible elastic	impression materials – p	outty-like elastomers.	
		c impression materials –	light-body elastomers.	
	11. Dental metallic all	* * *		
	12. Ceramics – ceram	12. Ceramics – ceramic kit.		
	13. Polymers-polymerization reaction.			
	14. Practical examination.			
Bibliography	1. Ronald L. Sakaguchi, John M. Powers. Craig's restorative dental			
		d.Elsevier Mosby 2018.		
			ne F. Esquivel-Upshaw.	
	Phillips' Science of Dental Materials, 13th Edition, ed.Elsevier Mosby 2021.			
	5			
	3. Andre V. Ritter. Sturdevant's Art and Science of Operative Dentistry, 7th Edition, 2018.			
	-		d. Contemporary Fixed	
	Prosthodontics, 5th Edition, Ed Elsevier, 2015.5. Richard Van Noort. Introduction to Dental Materials, 4th Edition.			
	ed Elsevier, 2013.			
	 W. Stephen Eakle, Kimberly G. Bastin. Dental Materials, Clinical 			
	Applications for Dental Assistants and Dental Hygienists, 4th			
	Edition. Ed. Else			
	7. Nicola C și colab. – Materiale dentare – Considerații clinice și			
	tehnologice. Ed.	Casa Cărții de Știință, Cl	uj-Napoca, 2009.	
Evaluation:	Written exam	Practical exam	Activity during the	
			semester:	
Percent of the	40%	30%	30%	
final grade:				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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. Carmen Georgiu						
Responsible for practical			Assoc. Prof. Dr. Mihaela Mera, MD, PhD						
activity			Teaching Assistant Dr. Bogdan Pop						
			Teaching Assistant Dr. Alexandra Buruiană-Simić						
			Teaching Assistant Dr. Diana Gonciar						
			Teaching Assistant Dr. Raluca Szilveszter						
			Teaching Assistant Dr. Maria Bungărdean						
			Resident of pathology, Dr. Silvia Spânu, MD, PhD						
			Resident of pathology Dr. Diana Negruțiu, MD, PhD						
			student						
The formative category of			DF						
the discipline									
Compulsory discipline			Compulsory						
	hours/week		hours/semester				~	Type of	
Year Sem	С	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 lectures and practical activities	 Amphitheater equipped with computer/ laptop and video projector, whiteboard. 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 competences	 To recognize, based on the notions of pathological anatomy, the main categories of pathological processes. To recognize, based on the notions of pathological anatomy, the

Γ	
	 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 competences	 Integration of notions of pathological anatomy in the context of skills 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 objectives	• Good knowledge, deepening and correct use of the notions of 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 Benign: Papilloma, Adenoma. Malignant: Squamous malignant. 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				
methods	• Examination of microscopic slides. PowerPoint presentations.			
memous	 Examination of formalin-fixed organs with different macroscopic lesions. 			
	 Participation at autopsies. 			
Practical	 Microscopic examination of histopathological slides. Making 			
activity carried	drawings with the main pathological aspects of the lesions.			
out by students	Describing the 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

	1 1.1 A . 1 111 1 1.1
	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.
L	Osteourunius of TMB. Recultation artifitis of TMB.

	14. REVISION		
	Revision of the notions presented in the practical sessions during the		
	semester.		
Bibliography	1. The handout of the	discipline - actualised year	arly.
	2. The presentations	with images (powerpoint,	pdf) elaborated by the
	discipline of Patholog	gy.	
	3. Edward W Odell,	Cawson's Essentials of O	ral 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	Practical exam	Activity during the
			semester:
Percent of the	80 %	20 %	-
final grade:			

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"							
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	se		I and I	- License	and ma	sters		
Quali	fication	l		Doctor	of Denta	l Medici	ne		
Depar	rtment			2 Func	tional scie	ences			
Discip	oline			Physiopathology					
Cours title		PHYSIOPATHOLOGY. IMMUNOLOGY							
Responsible for lecture		Assist. Prof. Dr. Camelia Manuela Mîrza							
Responsible for practical		Assist. Prof. Dr. Camelia Manuela Mîrza							
activit	activity								
The fo	ormativ	e catego	ry of	DF					
the discipline									
Compulsory discipline		Compulsory							
V	N G	hours/	/week	ho	urs/semes	ter	T (1		Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	2	2	28	28	69	125	5	E

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 competences	• To analyze the data and select the necessary tests for the diagnosis 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 objectives	• At the end of the semester the students will be able to correctly complete the pathophysiological map of the patients with oro-maxillofacial and general disorders.
Specific objectives	• Identification of the basic pathophysiological mechanisms of patients with oro-maxillofacial and general disorders.
	• Development of a plan for the evaluation of patients with oro- maxillofacial 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.			
	3. Inflammatory diseases diagnosis.			
	4. 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.			
	14. PBL.			
Bibliography	1. Current Pathophysiology Lecture.			
	2. Huether RN PhD, Sue E., McCance RN PhD, Kathryn L.			
	Understanding Pathophysiology. Mosby, Nov 11, 2019.			
	3. Camelia Manuela Mirza, Alina Elena Parvu, Adriana Elena			
	Bulboaca, Mihai Blidaru, Florinela Adriana Catoi, Ramona-Niculina			
	Jurcau, Meda Sandra Orasan, Iulia Ioana Morar, Andra-Diana			
	Andreicuț, Iulia Olimpia Pfingstgraf, Paul Mihai Boarescu, Teodora- Irina Bonci, Elisabeta Ioana Chera - Laboratory Study Guide For			
	General And Oro-Maxillo-Facial Pathophysiology. Editura Medicală			
	Universitară "Iuliu Hațieganu", 2019.			
	4. Juzar Ali, Warren Summer And Michael Levitzky, Pulmonary			
	Pathophysiology: A Clinical Approach, 8th Edition, Lange Medical			
	Book, Mcgraw-Hill Medical, 2019.			
	5. Hoffbrand Victor, Moss Paul, Essential Haematology, Wiley-			
	Blackwell; 8 Ed., 2019.			
	6. McCance RN PhD, Kathryn L., Huether RN PhD, Sue E.			
	Pathophysiology: The Biologic Basis for Disease in Adults and			
	Children. Mosby Feb 28, 2018.			
	7. Norris Tommie L, Lalchandani Rupa.Porth's Pathophysiology:			
	Concepts of Altered Health States. LWW Nov 3, 2018.			
	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 Bulhagază, Mihai, Blidaru, Corman Angela, Sfrângeu, Elezingla			
	Bulboacă, Mihai Blidaru, Carmen Angela Sfrângeu, Florinela			
	Adriana Cătoi - Fiziopatologie pentru medicină dentară. Editura			

	Medicală Universitară "Iuliu Hațieganu", 2018. 10. West John B., Pulmonary Pathophysiology: The Essentials Lippincott Williams & Wilkins; 10 th Ed., 2017. 11. Bunn howard franklin, aster jon c., pathophysiology of blood disorders, lange medical books, mcgraw-hill medical, 2 nd ed., 2016.					
	 12. J. Gill j. Dental caries: the disease and its clinical management, third edition. British dental journal, 2016. 13. Silbernagl Stefan, Lang Florian, Color Atlas Of Pathophysiology, Thieme, 2011. 					
	14. Bulboaca Adriana, Parvu Alina Elena, Pathophysiology For Dental Medicine, Echinox, Cluj Napoca, 2009.					
Evaluation:	Written examPractical examActivity during the semester:					
Percent of the final grade:	60%	30%	10%			

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	se		I and I	I- License	e and ma	sters		
Qualit	fication	l		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Mole	cular scie	ences			
Discip	oline			Microb	oiology				
Cours title		MICROBIOLOGY (BACTERIOLOGY.							
			VIRUSOLOGY. PARASITOLOGY)						
Responsible for lecture			Assoc.	Prof. D	r. Carm	en COST	TACHE, N	ID, PhD	
Responsible for practical		Assist.	Dr. Mădă	ălina Bo	rdea				
activit	t y			Assist. Dr. Alina Baciu					
The fo	ormativ	ve catego	ory of	DF					
	the discipline								
Compulsory discipline		Compulsory							
N 7	YearSemhours/weekCLP/S		ho	urs/semes	ster	T 1		Type of	
Year			LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	1	2	14	28	33	75	3	Е

Pre-conditions (Preliminary conditions)	•	Basic biology. Working with the light microscope.
Requisites for lectures and practical activities	•	Respecting the academic rules for the participation to lectures 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.
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	• Acquisition of theoretical and practical knowledge on infectious agents
objectives	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.

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.					
	Inoculation of culture media.					
	• TPHA/other antigen-antibody technique.					
	Disk diffusion susceptibility testing.					
	Interpretation of laboratory assays.					
Content	1. Sterilization and disinfection.					
	2. Sample collection.					
	3. Microscopic preparation (wet smear, stained smear): principles,					
	techniques, information) Stainings: Gram					
	4. Stainings: Ziehl-Nielsen (principle, techniques), special stainings					
	(enumeration-examples).					
	5. Culture media (definition, classification, examples). Inoculation					
	techniques. Cultural characteristics used in identification.					
	6. Laboratory diagnostic scheme for the infection disease .					
	7. Antigen antibody reaction (principles, examples, interpretation).					

	8. Antibiotic susceptib	bility testing and interpre	tation.						
		by Gram positive cocci							
	staphylococci) – labor	atory diagnosis.							
	10. Infections produced by Gram negative cocci and cocobacilli								
	(Neisseria, Haemophy	(Neisseria, Haemophylus, Bordetella).							
	11. Infections produce	ed by Gram positive baci	lli (Bacillus, Clostridium)						
	and Mycobacterium.								
	12. Infections produce	ed by Gram negative back	illi (enterics,						
	Pseudomonas, H.pylo	ri).							
	13. Infections produce								
	14. Practical examinat	ion.							
Bibliography	1.George F. Brooks, Janet S. Butel, Stephen A. Morse, Joseph L.								
	Melnick, Ernest Jawetz, Edward A. Adelberg- Jawetz, Melnik								
	Adelberg's Medical Microbiology – 26-th edition, McGraw-Hill								
	Professional Ed., 2013.								
	2. Monica Junie, Carmen Costache (Translation). 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 Hațieganu", Cluj Napoca, 2017.								
	4.Carmen A.Costache, Ioana A.Colosi, Madalina A. Bordea.								
	Laboratory works for Microbiology. Editura Medicală Universitară "Iuliu Hațieganu", Cluj Napoca, 2019.								
Evaluation:	Written exam	Practical exam	Activity during the						
	written exam	i racucai exalli	semester:						
Percent of the	70%	15%	15%						
final grade:	/0/0	13/0	13 /0						
iniai graue:									

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 Prosthodontics and Dental materials
Discipline	Dental Propedeutics and Esthetics
Cours title	MORPHOLOGY OF TEETH AND DENTAL
	ARCHES
Responsible for lecture	Lecturer Dr. Alexandra Botoş
Responsible for practical	Lecturer Dr. Alexandra Botoș
activity	Teaching Assistant Dr. Amelia Boitor
The formative category of	DS
the discipline	

Compulsory discipline		Compulsory							
	G	hours/week		hours/semester		T 1	a 11	Type of	
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	1	1	2	14	28	33	75	3	Е

Pre-conditions	• Morphology and function of the dento-maxillary system,
(Preliminary conditions)	Anatomy of the head.
	• Physiology of the oro-facial system.
	 Histology of head and neck structures.
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).
	• Portfolio with examination charts, filled in according to
	the curriculum.

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	• The students should understand and be able to use the information
objectives	provided in clinical communication.
	• Students should also be able to use the knowledge acquired in a
	clinical examination in dentistry, the main goal being able to assess 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.

•	Assimilation of general clinical examination knowledge and the ability to correlate them with the health status of the maxilla-facial
•	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, history of the current							
	disease, psychological profile of the patient, bad habits, clinical general							
	examination.							
	2. Perioral examination through frontal face inspection, perior							
	examination through lateral face inspection.							
	3. Perioral examination through palpation- teguments, muscle groups,							
	lymph nodes, bone contours, nerve emergence points.							
	4. Examination of the temporomandibular joint, examination of the amplitude and trajectory of the opening of the mouth.							
	5. Evaluation of oral hygiene. Examination of fixed and attached							
	mucosa.							
	6. Examination of salivary glands, hard and soft palate, floor of the							
	mouth. Examination of the alveolar ridges and maxillary tuberosities.							
	7. Examination of the dental arches – shape, occlusion curves, frontal curvature, occlusal contacts. The dental chart.							
	8. Examination of the teeth. Dental lesions with lack of tooth structure:							
	caries, fractures, erosions, abrasions, abfractions.							
	9. Examination of the teeth. Dental lesions without lack of tooth							
	structure: number, volume, shape, colour anomalies.							
	10. Examination of the dental restorations. Classification of the							
	edentulous arches according to Kennedy and Costa.							
	11. Single tooth position changes, group position changes.							
	12. Static occlusal intermaxillary relationship - ideal and pathological.							
	13. Dynamic movements of the mandible – ideal and pathological.							
	13. Dynamie movements of the mandifie – idear and pathological.							
	14. Examination of the periodontium.							
	· · · · · · · · · · · · · · · · · · ·							
	PRACTICAL ACTIVITIES							
Teaching	• Interactive exercises, practical demonstrations on phantom head							
methods	and on 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. Introduction to the examination techniques used in dentistry.					
	Presentation of the dental office and the sterilization chamber, sterilization circuit, the examination kit.					
	2. Patient history. History of the current disease. Personal and family					
	history, general and local. The reason for seeing the dentist.					
	3. Perioral examination through frontal and lateral face inspection.					
	4. Perioral examination through palpation.					
	5. Evaluation of the temporomandibular joint.					
	6. Revision of the exooral patient examination.					
	7. The examination of the oral mucosa, examination of the tongue, of the					
	dental ridges and of the hard palate. The dental chart.					
	8. The examination of the dental arches – lesions with and without lack					
	of dental structure.					
	9. Classification of edentulous maxillary and mandibular arches					
	according to Kennedy and Costa. 10. Dental examination – single tooth position modifications. Group					
	position modifications.					
	11. Evaluation of static occlusal intermaxillary relationship.					
	12. Evaluation of dynamic movements of the mandible.					
	13. Periodontal evaluation.					
	14. Revision of endooral examination.					
Bibliography	1. Botoș A, Lecture script Morphology of Teeth and Dental Arches, 2021-2022.					
	2. Botoș A, Dudea D, Aghiorghiesei A, Mesaroș A. Oral					
	Semiology. Practical Activity Book. Editura Medicală					
	Universitară "Iuliu Hațieganu" Cluj-Napoca, 2019.					
	3. Brandt R.W., Isselhard D.E Anatomy of Orofacial Structures,					
	a comprehensive approach. 8 th edition. Elsevier. 2018.					
	4. Berkovitz B, Moxham B, Linden R, Sloan A. Master Dentistry					
	Vol. Three. Oral Biology. Churchill Livingstone Elsevier. 2011					
	 Dawson PE. Functional Occlusion. From TMJ to Smile Design. Mosby Elsevier. St. Louis. 2007. 					
	6. Netter's Head and Neck Anatomy for Dentistry. Neil S. Norton.					
	Elsevier Saunders. 2 nd Edition. Philadelphia, 2012.					
	7. Nelson S. Wheeler's Dental Anatomy, Physiology and					
	Occlusion. 11 th edition. Elsevier 2020.					
	8. Okeson JP. Management of Temporomandibular disorders and					
	occlusion. Elsevier. 8th Edition. St. Louis 2020.					
	9. Rosen E, Nemcovsky C, Tsesis I. Evidence-Based Decision					
	Making in Dentistry. Springer 2017.					
	10. Scheid RC, Weiss G. Woelfel's Dental Anatomy, Enhanced 9 th					
	Edition. Jones and Bartlett Publishers 2020.					
	11. Stefanac S, Nesbit S. Diagnosis and Treatment planning in					
	Dentistry. 3 rd Edition. Elsevier, 2017.					

	 Terezhalmy GT, Huber MA, Jones AC. Physical Evaluation in Dental Practice. Wiley-Blackwell, 2009. Wilson N, Dunne S. Clinical Procedures in Dentistry. Wiley Blackwell, 2018. 					
Evaluation:	Written exam	Practical exam	Activity during the semester:			
Percent of the final grade:	50%	25%	25%			

Institution for graduate and postgraduate studies				University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj-Napoca					
Faculty			5	Dental Medicine					
-	in of st	udy		Health		-			
	emic de			Dental	Medicine	e in Engl	ish		
	of cour			I and I	- License	and ma	sters		
Quali	fication	l		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Oral	Rehabilit	ation			
Discipline			Oral Health						
Cours title			ETHICS AND INTEGRITY IN ACADEMIA						
Responsible for lecture			Assoc. Prof. Maria Aluaș						
Responsible for practical activity			-	-					
The fo	ormativ	e catego	ry of	DC					
	scipline								
Compulsory discipline		Compulsory							
Veen	V C		hours/week		urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1	1	0	14	0	36	50	2	V

Pre-conditions (Preliminary conditions)	• Adequate level of understanding, conversation, speaking, and writing in English.
Requisites for lectures and practical activities	 Students will keep them off GSM. During the course, phone calls are not allowed. Students cannot leave the amphitheater to the reason of personal phone calls. 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	•	Being able to use correctly, in the appropriate context, the
competences		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	
	The mig are defined to use the concepts femaled in her contents.
competences	• 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	• At the end of the semester, students will acquire skills that make
objectives	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	• At the end of the semester, students will be able to:
objectives	• Distinguish between describe and evaluate a concrete situation
Ĩ	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 methods	 Exhibition of knowledge according to the proposed themes, stimulating interactivity; illustration by clinical cases; use of multimedia. Oral presentation (lecture), with multimedia support (Powerpoint, doubled images / movies). 					
Content	 Introductory course. Conceptual definitions and boundaries: What does ethics and academic integrity mean? The causes and cases that led to the emergence of this new discipline: Jon Studbo, Eric Poehlman, Andrew Wakelfied. Forms of facts that can be classified as misconduct in the academic environment: data falsification, fabrication, plagiarism, other frauds. Data fabrication: causes and consequences. Data falsification: causes and consequences. Plagiarism: causes and consequences. Conflict of interests: definition, causes, consequences. Data protection. The concept of privacy and confidentiality. 					
	9. Intellectual property rights: copyright and patents.					

	10. Legal regulations	regarding Misconduct p	ractices.			
	11. European Code of					
		to acts of misconduct: a	cademic, disciplinary,			
	legal sanctions.					
	13. Solutions: education	on, methodological skill	ls, change of policies.			
	14. Science and profes	ssional responsibility.				
Bibliography	1. All European Academies, The European Code of Conduct for					
	Research Integrit	y. Revised Edition, Ber	lin 2017.			
	2. The Embassy of	Good Science Plarform	(2020),			
	https://embassy.s	cience/wiki/Main_Page				
	3. PRINTEGER (20	16). Documents and Re	esults.			
		eu/documents-results/. A				
		-	luct of Research, 3rd ed.			
	Oxford Universit	-				
			ion process manipulation:			
		.	Peer Review2018;3:13.			
		073-018-0059-xNoguei	ra TE, Gonçalves AS,			
	Leles CR.					
		a LR. A survey of retrac				
	2	es Notes. 2017 Jul 6;10	(1):253. doi:			
	 10.1186/s13104-017-2576-y. Faggion CM Jr, Ware RS, Bakas N, Wasiak J.An analysis of retractions of dental publications.J Dent. 2018 Dec;79:19-23. doi: 10.1016/j.jdent.2018.09.002. Steen, R. G. (2011). Retractions in the scientific literature: 					
		perately commit resear				
	Medical Ethics, 37(2), 113–117. 9. Schatten: Pitt Panel Finds 'Misbehavior' but Not Misconduct.					
	University Panel Faults Cloning Co-Author, By NICHOLAS					
	WADE.	U				
	10. Nogueira TE, Gonçalves AS, Leles CR, Batista AC, Costa LR. A					
	survey of retracte	d articles in dentistry.B	MC Res Notes. 2017 Jul			
	6;10(1):253. doi:	10.1186/s13104-017-25	576-у.			
			ion E Broome. Scientific			
		the perspective of resea				
	-	Med Ethics 2007;33:30	65–369. doi:			
	10.1136/jme.200					
			ai, Maria Aluaș, Adriana			
			ong manuscripts reporting			
			PLoS ONE 14 (6), 2019.			
			Authorship Criteria for			
			ltural Management and			
Evaluation:	Ethics", Nr. 2/20 Written exam	Practical exam	Activity during the			
		I TACUCAI CAAIII	semester:			
			sumster.			

Percent of the	70%	0%	30%
final grade:			

Institution for graduate and				University of Medicine and Deermooy "Juliy Hetiogeny"					
Institution for graduate and postgraduate studies			University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgi	aduate	e studies		Cluj-N	apoca				
Facult	ty			Dental	Medicine	•			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	se		I and I	- License	and ma	sters		
Qualit	fication	l		Doctor	of Denta	l Medici	ne		
Depar	tment			3 Mole	cular scie	ences			
Discip	line			Medica	al genetics	S			
Cours title			GENETICS						
Responsible for lecture		Lecturer Dr.Catana Andreea							
Responsible for practical			Lecturer Dr. Catana Andreea						
activit	t y			Lecturer Dronca Eleonora, MD, PhD					
				Lecture	er Cornea	n Rodica	a, MD, Pł	ıD	
				Assista	Assistant professor Crișan Tania Octavia, MD, PhD				
The fo	ormativ	ve catego	ry of	DF					
	scipline	-	•						
Compulsory discipline		Compulsory							
			s/week	ho	urs/semes	ter	T		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1	1	1	14	14	22	50	2	Е

Pre-conditions	-	
(Preliminary		
conditions)		
Requisites for	٠	Amphitheatre with visual projection system and Internet
lectures and practical		acces.
activities	٠	Practical activities in designated student classrooms with
		video projection system and Internet access.
	•	Cytogenetic and molecular genetics laboratories.

Professional	• The ability to use specialized terminology appropriately and in
competences	context.
	• Understanding and operating with notions of structural and functional genetics and genomics.
	• The use of fundamental notions of genetics as a basis for the specific approach to genetic pathology in current medical activity.
	• The ability to recognize and adequately use the phenotype elements
	of some genetic diseases to achieve the correct diagnosis and
	prophylaxis.

	 The ability to know and correctly use the necessary genetic tests in the context of gene pathology. The ability to use and adequately perform elements of individual and family genetic consultation and counseling in the context of congenital anomalies or diseases/syndromes with dentofacial damage. The ability to recognize and use the basic principles of ethics about genetic pathology.
Transversal	• The use of assimilated notions in new contexts.
competences	• The application of theoretical notions of genetics and genomics in
	practical medical activity. We are establishing interdisciplinary correlations within the studied fields.
General	• Understanding fundamental genetics necessary for clinical practice
objectives	• 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.
	counseling and prevention of genetic diseases, particularly for
	dental-maxillofacial pathology.

	LECTURES						
Teaching methods	• Oral presentations, systematic, interactive presentation (PPT support)						
Content	1. Introduction to Genetics. The Human Genome.						
Content							
	2. Genes and gene structure.						
	3. Genes, mutations, and transmission of hereditary information.						
	4. Autosomal dominant and recessive patterns of inheritance.						
	5. Gonosomal dominant and recessive patterns of inheritance.						
	6. Variability of genetic information. Mutations. Mechanisms and						
	Classification.						
	7. Variability of genetic information. Mutations. Effects on the						
	phenotype.						
	8. Chromosomal anomalies. Mechanisms of numerical chromosome						
	anomalies.						
	9. Chromosomal anomalies. Mechanisms of structural chromosome						
	anomalies.						
	10. The mitochondrial genome. Mechanisms involved in mitochondrial						

	disorders.
	11. The mitochondrial genome and mitochondrial pathologies. Specific
	mutations and mitochondrial disorders.
	12. Congenital anomalies. Classification and causes of congenital
	anomalies.
	13. Congenital anomalies. Teratology.
	14. Prophylaxis principles in dental disorders and congenital anomalies.
	PRACTICAL ACTIVITIES
Teaching	Oral presentations, interactive methods and Case Report analysis
methods	(PPT support).
Practical	• Interpretation of chromosome and molecular analysis in context
activity carried	of oral health disorders.
out by students	• Genetic counseling in genetic disorders related to inheritable oro-
-	facial and dental disorders.
	• Case presentation.
Content	1. Introduction, chromosomal morphology, international classification
	of human chromosomes, criteria for classification of human
	chromosomes, chromosomal heteromorphisms.
	2. Indications for prenatal genetic diagnosis.
	3. Indications for post-natal genetic diagnosis.
	4. Chromosome disorders. Trisomy 21.
	5. Chromosome disorders. Trisomy 18 and 13.
	6. Heterosomal aneuploidies. Genetics and phenotype.
	7. Genetic counseling. Pedigree analysis.
	8. Cranio-facial anomalies, monogenic syndromes of the face and skull.
	9. Cranio-facial anomalies, monogenic syndromes of the soft tissues
	involving the face.
	10. Genetic component of numerical dental anomalies (oligodontia and
	hyperdontia).
	11. Genetic component of structural dental anomalies (micro and
	macrodontia).
	12. Hereditary dental dystrophies. Amelogenesis imperfecta.
	13. Hereditary dental dystrophies. Dentinogenesis imperfecta.
	14. Acquired information assessment.
Bibliography	1. Genetica medicala. Curs pentru studentii anului II Medicina.
	Coordonator Profesor Univ. Dr. Ioan V. Pop, Ed. medicala
	universitara "Iuliu Hatieganu", Cluj-Napoca, 2013 (English version).
	2. Genetica medicala. Indrumator de lucrari pentru studentii anului II
	Medicina dentara, Coordonator Profesor Univ. Dr. Ioan V. Pop, Ed.
	medicala universitara "Iuliu Hatieganu", Cluj-Napoca, 2012 (English
	version).
	3. Thompson & Thompson Genetics in Medicine, 8th EditionRobert
	Nussbaum Roderick McInnes Huntington Willard, Elsevier, 2015.
	4. www.orphanet.com.
	5. www.omim.com.

	6. www.pharmgkb.co7. www.ensembl.org.		
Evaluation:	Written exam	Practical exam	Activity during the semester:
Percent of the final grade:	66,67%	33,33%	-

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualit	fication	1		Doctor	of Dental	l Medici	ne		
Depar	tment			12 Mec	lical educ	ation			
Discip	line			Medical psychology					
Cours	title			MEDICAL PSYCHOLOGY					
Responsible for lecture			Lecturer Dana-Cristina Herța, MD, PhD						
Respo	nsible	for pract	ical	Lecturer Dana-Cristina Herța, MD, PhD					
activit	y			Vacant 9 Teaching Assistant					
The fo	ormativ	ve catego	ry of	DC					
the discipline									
Compulsory discipline			Compulsory						
V	V	hours/week		ho	urs/semes	ster Tetal Coul		Carlie	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1	1	1	14	14	22	50	2	V

Pre-conditions (Preliminary conditions)	 Behavioral Sciences. Medical Communication. 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.

	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.
	\circ Evaluation process.
	- Mental processes.
	\circ 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. 	
3. Normal-Abnormal. Health-Disease.	
Critorio for normality	
- 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 w	th
the context and patient's personality.	
5. Stress – Health – Disease.	
- Definition.	
\circ Stressors.	
 Definition. 	
 Classification. 	
■ Evaluation.	
• Reactions to stress (somatic and psychological).	
 Stress mediators. 	
Support network.	
 Defense mechanisms. 	
 Coping mechanisms. 	
- The relationship between stress and disease.	
• 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.	

 T
- 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.
• Definitions.
• Factors .
10. Iatrogenies.
- The concept of iatrogenic conditions.
 Pharmacological iatrogenies.
- Investigation iatrogenies.
- Relational iatrogenies.
- 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.
\circ Definition.
• Characteristics of resilient persons.
14. Fundamentals in psychotherapy.
Classification of psychotherapeutic methods.
 Psychodynamic psychotherapies.
 Behavioral psychotherapies.
1º Denavioral psycholicrapies.

 Cognitive psychotherapies. Humanistic psychotherapies. Techniques for counselling. Applications of psychotherapies in medical practice. 	
• Applications of psychotherapies in medical practice.	
• Medical counselling.	
• Transferential relationships.	
PRACTICAL ACTIVITIES	
Feaching • Demonstration.	
methods • Exercise.	
Conversation.	
Problem-solving.	
Case studies.	
Roleplay.	
Practical • Observation of patient evaluation.	
• Exercise mental processes evaluation.	
• Exercise of personality assessment.	
 Roleplay for developing an adequate mental representation of disease. 	
 Roleplay for relationship building with difficult patients. 	
 Case study debates. 	
Evaluation of a patient.	
Stress self-assessment.	
 Exercise on evaluating stress in another person. 	
 Roleplay on crisis intervention. 	
 Roleplay for building empathic relationships. 	
 Evaluation of iatrogenies in a patient. 	
 Evaluation of compliance to treatment of a patient. 	
Content 1. Evaluation of mental processes.	
2. Personality assessment interviews.	
3. The role of the doctor in building a correct mental representation of	
disease.	
4. The bio-psycho-social model in medicine.	
5. Adapting the doctor-patient relationship to difficult patients: anxious	
and phobic patients.	
6. Adapting the doctor-patient relationship to difficult patients:	
obsessional and paranoid patients.	
7. Adapting the doctor-patient relationship to difficult patients:	
depressive and histrionic patients.	
8. Adapting the doctor-patient relationship to difficult patients:	
aggressive and detained/arrested patients.	
9. Evaluation of stress. Management of the burnout syndrome.	
10. Crisis intervention for suicide prevention.	
11. Bereavement.	
12. Therapeutic iatrogenies.	
13. Evaluation of compliance to treatment.	
14. Empathic relationships.	

Percent of the final grade:	50%	25%	25%					
			semester:					
Evaluation:	Written exam	Practical exam	Activity during the					
	Lippincott Willia	ms & Wilkins; 2001. IS	SBN 0-7817-3084-8.					
	5. Fadem B. High-Y	Celd Behavioral Science	e. 2nd ed. Baltimore:					
	978-973-46-1735	5-1.						
	4. Cosman D. Psiho	ologie medicală. Iași: Ed	l. Polirom; 2010. ISBN					
	2013. ISBN 978-	973-595-601-1.	2 .					
	3. Cosman D. Suici	dology. Cluj-Napoca: P	resa Universitară Clujeană;					
	Universitară Cluj	eană; 2014. ISBN 978-	973-595-652-3.					
	2. Coman H, Nemes	Coman H, Nemes B. Behavioral Sciences. Cluj-Napoca: Presa						
	Universitară Cluj	eană; 2014. ISBN 978-	973-595-651-6.					
Bibliography	1. Cozman D, Neme	eș B. Medical Psycholo	gy. Cluj-Napoca: Presa					

Institu	ition fo	or gradua	ate and	Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"
postgr	aduate	e studies		Cluj-Na	apoca				
Faculty			Dental Medicine						
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	rtment			4 Prost	hetic Den	tistry an	d Dental	materials	
Discip	oline			Dental	Propaede	utics and	l esthetics	5	
Cours	title			DENT	AL TECI	HNOLO	GY		
Respo	nsible	for lectu	re	Lecturer Dr. Cristina Gasparik					
Respo	nsible 1	for pract	ical	Sef. Lucr. Dr. Cristina Gasparik					
activit	t y			Sef lucr. Dr. Alexandru Grecu					
			Asist. Univ. dr. Delia Moise						
	Asist. Univ. dr. Amelia Boitor								
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Comp	Compulsory discipline		e	Compu	lsory				
	a	hours	/week	ho	urs/semes	ter		<i>a</i>	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	2	2	4	28	56	66	150	6	Е

Pre-conditions (Preliminary conditions)	•	Materials Ability to identify anatomic parts of the head and face, practical skills for reproduction of tooth morphology using
Requisites for	•	dental materials. Attendance – minimum 70% of lectures.
lectures and	•	Attendance -100% of practical activities.

practical activit	ies • Laboratory coat and scrubs.
	 Completion of required tasks.
	Completion of required tasks.
Professional competences	 Ability to use specialized terminology, properly and in context. 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
Transversal competences General objectives	 CAD CAM technique, heat-pressing, and combined methods. Ability to use the information in a new context. Ability to apply the theoretical knowledge on a practical basis. Ability to establish connection between the studied subjects. Acquiring information related to specific technological processes involved in the fabrication of the most common turner of fixed.
objectives	involved in the fabrication of the most common types of fixed dentures.
Specific objectives	 Accumulation of basic knowledge related to the classification of 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 methods	Lecture, Systematic and interactive presentation, Inquiry- based learning, Oral presentation, PowerPoint and video presentations.
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

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	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.
	PRACTICAL ACTIVITIES
Teaching	• Interactive presentations, live and video demonstrations, inquiry-
methods	based learning, flipped classroom, role-play.
Practical	• 3 tooth preparations for metal and metal-ceramic crowns (MC), 3
activity carried	wax patterns of the metal coping for MC crowns, 1 wax pattern for
out by students	cast metal crown, 1 wax pattern for full ceramic heat-pressed
	crown, 2 wax patterns for inlays and onlays, 1 wax pattern for full
	ceramic heat-pressed bridge, 1 wax pattern for the metal
	framework of a MC bridge.
Content	1. Technological steps for full coverage restorations. Instruction on the
	use of the dental 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

hnique) – pontic de Fabrication of a wa hnique) – continuat Revision. Gasparik C. D. Format 2022-23. Stephen F. Ros Contemporary Fi: Silas Duarte. Qu 2010-2020. Ronald E. Goldst 2018. Douglas T, Gelle Selection and Tec The Glossary of Dent. 20 10.1016/j.prosder Johnson T, Patric Basics of Dental 2015. Shillingburg H.T	ax pattern for a full-ceram ion. ental Technology- Lec senstiel, Martin F. Lan xed Prosthodontics. 6th E intessence of Dental Te ein R.E. Esthetics in Den r W - Esthetic and Restor chnique. Quintessence, 20 Prosthodontic Terms: N D17 May;117(55 nt.2016.12.001. PMID: 28 ck DG, Stokes CW, Wil Technology: A Step by	nic bridge (heat-press eture syllabus-Electronic nd, Robert D. Walter. Edition. Elsevier, 2022. Echnology. Quintessence, tistry, 3rd edition, Wiley, rative Dentistry: Material 018. Ninth Edition. J Prosthet S):e1-e105. doi:
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Fabrication of a wa	ax pattern for the metal fr	amework of a metal-
	nic - demonstration.	, , , , , , , , , , , , , , , , , , ,
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	te impression of the dent	al arch; making a
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Institution for graduate and University of Medicine and Pharmacy "Iuliu Hațieganu"

postgr	aduate	studies		Cluj-Na	apoca				
Faculty			Dental Medicine						
Domain of study			Health	Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Denta	l Medici	ne		
Depar	rtment			4 Prost	hetics and	l Dental	materials		
Discip	oline			Dental	Materials	, Ergono	omics		
Cours	title			DENT	AL MAT	ERIAL	S		
Respo	nsible	for lectu	re	Lecturer Dr. Adriana Objelean					
Respo	nsible 1	for pract	ical	Lecturer Dr. Adriana Objelean					
activit	t y			Lecturer Dr. Andrada Voina-Ţonea					
			Vacant As Univ 54						
The formative category of			DS						
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37	G	hours	/week	ho	urs/semes	ster	T (1	0 1	Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	2	3	28	42	55	125	5	E

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	 Ability to adequately use the specialty terminology. 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	 Use of assimilated information in new contexts.
competences	 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					
activity carried	different procedures and techniques for the application of					
out by students	restorative dental 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 materials.					
	9. Luting of the non-esthetic prosthetic restorations.					
	¥					
	10. Luting of the esthetic prosthetic restorations.					

	13. Dental amalgam.					
		•				
	14. Practical examination.					
Bibliography	1. Ronald L. Sakag	guchi, John M. Powers	. Craig's restorative dental			
	materials - 14th e	d.Elsevier Mosby 2018				
	2. Chiayi Shen, H	. Ralph Rawls, Josep	hine F. Esquivel-Upshaw.			
	Phillips' Science	of Dental Materials.	13th Edition, ed.Elsevier			
	Mosby 2021.	· · · · · · · · · · · · · · · · · · ·				
	2	r Sturdevant's Art a	nd Science of Operative			
	Dentistry, 7th Ed		in science of opplative			
			and. Contemporary Fixed			
	1	th Edition, Ed Elsevier,	1 2			
	,	, , ,				
	5. Richard Van Noort. Introduction to Dental Materials, 4th Edition.					
	ed Elsevier, 2013.					
	-	W. Stephen Eakle, Kimberly G. Bastin. Dental Materials, Clinical				
	Applications for	Applications for Dental Assistants and Dental Hygienists, 4th				
	Edition. Ed. Else	Edition. Ed. Elsevier 2020.				
	7. Nicola C și cola	. Nicola C și colab. – Materiale dentare – Considerații clinice și				
	tehnologice. Ed. Casa Cărții de Știință, Cluj-Napoca, 2009.					
Evaluation:	Written examPractical examActivity during the					
			semester:			
Percent of the	40%	30%	30%			
final grade:						
illiai gi aut.						

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine	:			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discipline			Dental Materials, Ergonomics						
Cours title			ERGONOMICS						
Responsible for lecture			Lecturer Dr.Voina-Ţonea Andrada- Feliciana						
Responsible for practical			Lecture	er Dr. Voi	na-Ţone	a Andrad	a- Felician	a	
activity			Vacant	As Univ	54				
The fo	The formative category of			DC					
the dis	the discipline								
Compulsory discipline		Compulsory							
V. C	G	hours/v		ho	urs/semes				Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	2	2	28	28	44	100	4	E

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

1	
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.
G 101	
Specific objectives	• Assimilated knowledge regarding dental work positions, 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.
	• Study of dental muscular-skeletal disorders recognition and their
	treatments.
	• Exercising the synthesis ability and bibliographical research.

	LECTURES					
Teaching methods	 Interactive, systematic lectures. Oral presentation. Powerpoint presentation. 					
Content	 Ergonomic-based organizing criteria: Anthropometric criteria. Ergonomic-based organizing criteria: Physiological and neuro- psychological criteria. Ergonomic-based organizing criteria: Chrono-biological and environmental criteria. Ergonomic-based organizing criteria: Environmental criterion. Specific dental activity criterion. 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					
activity carried	discussed topic.					
out by students	 Exercises related to the practical class discussed topics. 					
Content	1. Dentist's dress code in order to avoid contamination.					
Content	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 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. Ergonomic organizing of medical activity: preparation of a dental					
	cavity and its restoration using a light-cured resin composite.					
	12. Ergonomic organizing of medical activity: application of an					
	amalgam restoration.					
	13. Ergonomic organizing of medical activity: full-arch impression.					
	14. Practical exam.					
Bibliography	1. P. Kalura, S. K. Punia, R. Bhargava - Ergonomics in Dentistry,					
	Lambert Academic Publishing, 2021, ISBN-10:6203840556.					
	2. L. B. Boyd - Dental Instruments, 7th Edition, 2021, ISBN:					
	9780323672436.					
	3. S. Singh - Ergonomics in Dental Practice, Lambert Academic					
	Publishing, 2020, ISBN:6202528400.					
	4. D.S. Robinson - Modern Dental Assisting, Elsevier, 2020,					
	ISBN: 9780323624855.					
	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. I	Fortune - Behavioral Dent	tistry, Wiley Blackwell,			
	2013, ISBN-10: 1118	272064.				
	8. D. S. Robinson, D	. L. Bird - Essentials of D	Dental Assisting, 6th			
	Edition, Elsevier, 201	3, 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:	Written examPractical examActivity during the					
	semester:					
Percent of the	40% 30% 30%					
final grade:						

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hatieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	rtment			3 Oral	Rehabilita	ation			
Discip	oline			Periodo	ontology				
Cours title		PERIODONTOLOGY							
Responsible for lecture		Lecturer Dr. Ștefan Adrian Petruțiu							
Responsible for practical		Lecturer Dr. Stefan Adrian Petrutiu							
activity			Asist. U	Jniv. Dr.	Cristina	Micu			
			Vacant	AS 40					
The fo	The formative category of		DS						
	the discipline								
Compulsory discipline		Compulsory							
V	C	hours/wee	week	ho	urs/semes	ter	T-(-1		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	2	1	2	14	28	33	75	3	E

Pre-conditions	 Basic knowledge of histology, physiology,
(Preliminary conditions)	microbiology. Evaluation of clinical and microbiological parameters.
Requisites for lectures and practical activities	 Amphitheater with projection system/ Online virtual system. 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	• Application of theoretical knowledge in clinical practice.
competences	• 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	Lectures, Power point presentations, Interactive lecture.				
methods					
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.					
		CAL ACTIVITIES				
Teaching		sentations, lectures, inte	ractive discussions.			
methods		,,,				
Practical	Preclinical activity	ities on specific study m	odels, observational			
activity carried		ssions. Practical exercis				
out by students		ease signs and symptom	0			
	clinical entity.	8				
Content		dontium – assessment o	n clinical cases, elements			
	of clinical eva		,			
	2. Gingival inflammation – signs and symptoms.					
		f symptoms and signs o				
	gingivitis.		1 1			
	<u> </u>	f differential symptoms	and signs between plaque			
	0	on-plaque induced ging	0 1 1			
	5. Clinical evalu	ation of signs associated	d with the lack of attached			
	gingiva.	C C				
	6. Periodontal pr	robes. Description, com	parative recognition,			
	advantages an	d disadvantages.				
	7. Instruments us	sed for supra-gingival a	nd sub-gingival scaling.			
	8. Instruments used in periodontal surgery.					
	 Maintenance care of periodontitis patients. Primary and secondary prophylaxis of periodontal disease. 					
	10. Maintenance	of the diabetes patients	with gingivitis.			
	Maintenance J	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 					
	periodontolog					
	14. The evolution	of signs of symptoms a	fter periodontal treatment.			
Bibliography			arodontologie 1.Notiuni de			
			BN 978-973-693-901-3).			
			Condor D, Cioban C.			
	5		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.					
Evolustions						
Evaluation:	Written exam	Practical exam	Activity during the			
Doncout - f 41-	500/	400/	semester:			
Percent of the	50%	40%	10%			
final grade:						

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"				
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	l		Doctor	of Dental	Medici:	ne		
Depar	tment			2 Funct	tional scie	ences			
Discipline		Immun	ology and	l Allergo	ology				
Cours title		ALLERGOLOGY AND CLINICAL							
		IMMUNOLOGY							
Responsible for lecture		Lectur	Lecturer Dr. Muntean Ioana Adriana						
Responsible for practical		Lecturer Dr. Pintea Irena							
activit	e e								
		ve catego	ry of	DD					
the dis	scipline	9							
Compulsory discipline		Compulsory							
Vaar	Year Sem	r Sem $\frac{\text{hours/we}}{C}$		ho	urs/semes	ter	Total	Contin	Type of
rear			Sem C LP/	LP/S	C	LP/S	SI	Total	Credits
2	2	1	1	14	14	22	50	2	Е
	C-courses: I D-precision estivity: S-laboratories: SI-individual study								

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

	• The objective examination of the immune system.					
Transversal	• Using notions in new contexts.					
competences	• Using theoretical notions in problem solving.					
	• Optimal and creative use of own potential in scientific activities.					
	Own professional development.					
General	• Knowledge, deepening and correct use of the concepts of					
objectives	immunology.					
Specific	• Students familiarization with aspects related to the application of					
objectives	theoretical and practical principles of immunology with emphasis on					
5	the use of diagnostic methods: serological, histological,					
	immunofluorescence, in vivo testing.					
	e e					
	• 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,							
methods	demonstrations, 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	v. etc).						
		bodies evaluation (includin	ng MoAb).					
		ons and their interpretation						
		n molecules, complement,						
		ons and Their Interpretation						
	presentation.							
	7. Immunodeficiency	7. Immunodeficiency case pesentations. Examining of lymph nodes,						
	spline, the corrobora	ation of clinical examin	ation information with					
	· ·	elevant laboratory elemer						
		ance (compatibility, immu						
		entations. Examining of ly						
		cal examination informat	1 5					
		y elements for dissonant st	ates.					
	9. Transplant case pres							
	10. Hypersensitivity -							
		sessment and Allergology:	Total IgE, specific IgE,					
	Immunogram.	- 1' 1''						
	12. Types of autoantibodies, disimune states laboratory identification.13. Autoimmune diseases cases, patients.							
	14. Immunopathology in parodontitis.							
Bibliography		Crietyear (under red.). C	ourse on Immunology					
Dibilography		Ed a-iva, "Iuliu Hațiegar						
	Cluj-Napoca, 2011.							
	2. Dumitrașcu d. Atopic diseases, Ed. Med. Univ. "Iuliu Hațieganu",							
	Cluj Napoca, 2002.	- F	····· · ····· ····· ···· ··· ··· · ··· ·					
		notherapy 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.							
Errales 4	6. Janeway's Immunobiology 9th,Kenneth Murphy, 2017.							
Evaluation:	Written exam	Practical exam	Activity during the					
Donoont of the	70%	20%	semester: 10%					
Percent of the final grade:	/070	2070	1070					
illiai gi aue:								

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"	
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	

Discip	Discipline		Modern languages						
Cours	Cours title		ROM	ROMANIAN LANGUAGE					
Respo	Responsible for lecture		-						
Responsible for practical activity		Assisti	Assisting Professor Anda Lăscuș						
	The formative category of the discipline		DC						
Comp	ulsory	disciplin	e	Compu	ılsoy				
	G	hours/week		ho	ours/semes	ster	T 1		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1, 2	0	2+2	0	28+28		56	2	С

Pre-conditions	-	
(Preliminary conditions)		
Requisites for lectures and	•	To respect the rules and regulations for practical
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	• 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. Welcome back! My identity. Expressing likes, speaking about daily
	activities.
	2. Revision – verbs in present tense, verbs that require personal and

	reflexive pronouns.			
	3. Family. Possessive adjectives.			
	4. The human body. Internal organs.			
	5. The genitive case for common and proper nouns.			
	6. The adjective – grades of comparison.			
	7. Ordinal numerals. Describing an image. Speaking about differences.			
	8. My future doctor's practice. The dental unit.			
	9. The future tense (literary and popular).			
	10. Taking a history. The patient chart. The clinical examination.			
	11. Expressing pain. Giving advice.			
	12. The dental cavity. The anatomy of the tooth.			
	13. Revision.			
	14. The subjunctive -3^{rd} person.			
	15. Prevention of dental problems. Tooth brushing. The mouth.			
	16. Verbs in the imperative mood.			
	17. Making an appointment at the dentist's.			
	18. Verbs in the conditional mood.			
	19. At the dentist's – patients' experiences.			
	20. Verbs in the past continuous.			
	21. I am afraid of the dentist. Dental anxiety.			
	22. Verbs expressing moods. The verb <i>a-i plăcea</i> (present, past, future).			
	23. Dental instruments. Sterilization process.			
	24. The impersonal pronoun <i>se</i> .			
	25. Xerostomia – symptoms, causes, recommendations.			
	26. Direct and indirect speech.			
	27. Revision.			
	28. Written and oral tests.			
Bibliography	1. Gogâță C., Tomoiagă A., Băgiag A., Coiug A., Andreica A.,			
	Limba română medicală. Sinteze pentru studenții Erasmus, Editura			
	Universitară Medicală, Cluj-Napoca, 2018.			
	2. Andreica A., Băgiag A., Coiug A., Gogâță C., Tomoiagă A.,			
	Româna medicală pentru nivel intermediar, Editura Medicală			
	Universitară "Iuliu Hațieganu", Cluj-Napoca, 2017.			
	3. Băgiag A., Andreica A., Tomoiagă A., Coiug A., Gogâță A., Limba			
	română în context stomatologic, Editura Medicală Universitară			
	"Iuliu Hațieganu", Cluj-Napoca, 2017.			
	4. Gogâță C., Tomoiagă A., Coiug A., Andreica A., Băgiag A., Ursa			
	A., Limba română. Elemente de limbaj medical. Nivel A2, Editura			
	Medicală Universitară "Iuliu Hațieganu", Cluj-Napoca, 2018.			
	5. Bejan, D. Gramatica limbii române. Ediția III, Cluj, Ed. Echinox,			
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Evaluation:	Written examPractical examActivity during the semester and of the individual portfolio			
Percent of the final grade:	33%	33%	34%	

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgr	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		
Quali	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			12 Mec	lical educ	ation			
Discip	line			Medical informatics and Biostatistics					
Cours	title			MEDICAL RESEARCH METHODOLOGY					
Responsible for lecture			Assoc. Prof. Dr. Horațiu Colosi						
Responsible for practical			Assoc. Prof. Dr. Horațiu Colosi						
activit	y			Lect. Dr. Dan Istrate					
				Lect. Dr. Tudor Călinici					
The fo	ormativ	ve catego	ry of	DC					
the discipline									
Compulsory discipline			Compulsory						
N	V G	hours/week		ho	urs/semes	ter	T (1		Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	1	2	14	28	8	50	2	E

Pre-conditions (Preliminary	 Fundamental Knowledge of Medical Informatics and Biostatistics.
conditions)	Diosutistics.
Requisites for lectures and practical activities	 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. 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	• Efficient use of bibliographic documentation methods to retrieve,	
competences	use and critical evaluate medical scientific literature.	
	• 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 competences	 Competencies for the use of digital media for medical 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:	
	1. Searching, recording and analyzing medical literature.	
	2. Domains of medical research and clinical study types.	
	3. Methods of medical research.	
	4. Analysis and interpretation of results of medical studies.	

Prac	 5. Principles for writing and correct presentation of research results 5. Principles of evidence-based medicine / dentistry (EBM / EBD). 7. Ethical principles in medical research. tical Activities have as objective the application of knowledge rding:
	 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.
	3. 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	 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.
	 Clinical studies. Prognostic studies (Evaluation of risk and protective factors). Clinical studies. Diagnostic studies (Evaluation of diagnostic procedures).
	 Clinical studies. Survival analysis (Survival studies). Clinical studies. Therapeutic studies (Randomized controlled trials).
	 Secondary research. Systematic Reviews and Meta-analyses. 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;
	I U
	· · · ·
Practical	
methods Practical	Explanations and dialogue in classroom doubled by individual assistance.

activity carried	computer software.		
out by students	computer software.		
Content	1. Safety rules. Introduction. Bibliographic documentation – citing		
Content	references according to the Vancouver style.		
	 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		
	scientific style for oral presentations with slides.		
	12. Presenting medical research (written communication of research		
	results): Case study (critical appraisal of a published original		
	research).		
	13. Evaluation of study validity. Interpreting the results of medical		
	studies. Practice of Evidence Based Medicine/Dentistry		
	(EBM/EBD).		
	14. Recapitulative research scenarios.		
Bibliography	1. Machin D, Campbell MJ. Design of studies for medical research.		
Distiography	Chichester. West Sussex: John Wiley & Sons Ltd; 2005.		
	2. Hulley SB, Cummings SR, Browner WS, Grady DG, Newman TB.		
	Designing Clinical Research. 4th ed. Philadelphia, PA: Lippincott		
	Williams & Wilkins; 2013.		
	3. Drugan T, Berghe AS, Bolboaca SD, Bondor C, Calinici C, Colosi		
	H, Cutas A, Iancu M, Istrate D, Leucuta DC, Valeanu M. Metodologia		
	Cercetării Științifice Medicale. Cluj-Napoca: Editura Medicală		
	Corociarii științinee metreate. Oruj-mapoea, Editura Metreata		

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Evaluation:	Written exam Practical exam Activity during the semester:					
Percent of the final grade:	60%	30%	10%			

Institu	ition fo	or gradua	te and	Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca							
Facult	t y			Dental	Medicine					
Doma	Domain of study			Health						
Acade	emic de	gree		Dental	Medicine	in Engli	ish			
Level	of cour	se		I and II	- License	and mas	sters			
Quali	fication	l		Doctor	of Dental	Medici	ne			
Depar	Department			3 Mole	cular scie	nces				
Discipline			Microbiology							
Cours title			MICROBIOLOGY (BACTERIOLOGY.							
			VIRUSOLOGY. PARASITOLOGY)							
Responsible for lecture			Assoc. Prof. Dr. Carmen COSTACHE, MD, PhD							
Responsible for practical			Assist.	Dr. Mădă	ilina Bor	dea				
activity		Assist.	Dr. Baciu	ı Alina						
The fo	ormativ	ve catego	ry of	DF						
the dis	the discipline									
Compulsory discipline		Compulsory								
37	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	E	

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

competences organisms (including human microbiocenosis) on health.	
Knowledge about microorganisms: bacteria, viruses, parasites and fu	ngi

	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, coronaviruses.				
	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.				
	7. Laboratory diagnosis in anaerobic infections of the gums.				
	8. Laboratory diagnosis in anaerobic infections of the oral cavity.				
	9. Laboratory diagnosis in aerobic infections of the oral cavity.				
	10. Laboratory diagnosis in infections associated with therapeutic				
	manovers in the oral cavity.				
	11. Laboratory diagnosis in infections of the sinusis –yeast.				
	12. Laboratory diagnosis in fungal infections of the sinusis –				
	filamentous.				
	13. Review.				
	14. Practical examination.				
Bibliography	1. George F. Brooks, Janet S. Butel, Stephen A. Morse, Joseph L.				
	Melnick, Ernest Jawetz, Edward A. Adelberg - Jawetz, Melnik				
	Adelberg's Medical Microbiology – 26-th edition, McGraw-Hill				
	Professional Ed., 2013.				
	2. Carmen Costache, Monica Junie, Ioana Colosi. Medical				
L					

Percent of the final grade:	70%	15%	15%			
			semester:			
Evaluation:	Written exam	Practical exam	Activity during the			
	Universitară "Iu	liu Hațieganu", Cluj Na	poca, 2019.			
	Laboratory works for Microbiology. Editura Medicală					
	4. Carmen A.Costache, Ioana A.Colosi, Madalina A. Bordea.					
	Napoca, 2011.					
	Virology. Editu	Virology. Editura Medicală Universitară "Iuliu Hațieganu" Cluj-				
	3. Monica Junie, C	3. Monica Junie, Carmen Costache (Trad). Basic Bacteriology and				
	"Iuliu Hațieganu", Cluj Napoca, 2017.					
	bacteriology and medical virology. Editura Medicală Universitară					

Institu	Institution for graduate and			Univer	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"
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	l		Doctor	of Denta	I Medici	ne		
Department			4 Prost	hetic Den	tistry an	d Dental I	Materials		
Discipline			Dental Propedeutics and Esthetics						
Cours title			MEDICAL PRACTICE						
Responsible for lecture			Lecturer Dr. Cristina Gasparik						
Responsible for practical			-						
activity									
The fo	ormativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
NZ	hours/week	ho	urs/semes	ster			Type of		
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	0	40	0	160			2	С

Pre-conditions (Preliminary conditions)	-
Requisites for lectures and practical activities	 Attendance – 100%. 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 objectives	• Acquiring knowledge on working in general medicine units and dental medicine units.
Specific objectives	 Knowledge on working in 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 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.
L	proputation for distinction and stormZation.

	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			Univer	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"	
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 mas	sters		
Quali	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			12 Mee	dical educ	ation			
Discip	line			Sport					
Cours	title			PHYSICAL EDUCATION					
Responsible for lecture			-						
Respo	Responsible for practical			Associ	ate profes	ssor Phl	D Mihai I	Ludovic K	iss
activit	t y								
The fo	ormativ	ve catego	ry of	DC					
the dis	scipline	e							
Compulsory discipline		Compulsory							
37			/week	ho	urs/semes	ter	T 1	<i>a</i> 11	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
2	1, 2	0	1+1	0	14+14		28	2	С

Pre-conditions (Preliminary	• Minimal motricity skills after graduating the high school.
conditions)	
Requisites for	• Students will not attend practical courses / activities with open
lectures and	mobile phones. Also, telephone conversations will not be
practical	tolerated during the course or practical activities, nor do students
activities	leave the gym to take 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	 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.
competences	 Applying certain notions and skills acquired in daily activities. Forming a healthy lifestyle by exercising regularly.
competences	 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 posttraumatic 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 effort).						
	3. General notions about the game of basketball.						
	4. General notions about the game of volleyball.						
	5. General notions about the game of football.						
	6. General notions about ball-room dance.						
	7. General notions about aerobic, Tabata and other specific body						
	trainings.						
	8. General notions about fitness, bodybuilding.						
	9. General notions about table tennis, badminton.						
	10. Competitive games with different objects in small groups.						
	11. Workshops – general physical training.						
	12. General notions about chess, schi-tourism.						

	13. General notions re	13. General notions regarding elements of medical gymnastics.				
	14. Final evaluation.					
Bibliography	1. Popovici Corneli	a, Kiss Mihai, David Sergiu	, Kollos Ciprian,			
	Fotbal – caiet de	lucrări practice 2020.				
	2. Kiss Mihai, Koll	os Ciprian, Popovici Cornel	ia, David Sergiu, Volei			
	- Caiet de lucrar	i practice, 2019.	-			
	3. Kollos C., Kiss M	A.L., Popovici C., David S.,	Baschet - Caiet de			
	lucrări practice, 2	lucrări practice, 2017.				
	4. Kiss Mihai Ludovic, Popovici Cornelia - Dans de societate – caiet					
	de lucrări practice, 2017.					
	5. M. Kiss, Caiet de lucrări practice: Culturism - Fitness, 2013.					
	6. C. Suciu, Îndreptar de lucrări practico-metodice, 2013.					
	7. Regulamentele ra					
Evaluation:	Written examPractical examActivity during the					
			semester:			
Percent of the	-	70 %	30 %			
final grade:						

3RD YEAR

Institution for graduate and postgraduate studies				University of Medicine and Pharmacy "Iuliu Hațieganu"					
		e studies		Cluj-Napoca					
Facul	·				Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualit	fication	l		Doctor	of Denta	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	oline			Odonto	ology, End	lodontic	s and Ora	l Patholog	У
Cours title			RESTORATIVE ODONTOTHERAPY						
Responsible for lecture		re	Professor 2 vacancy						
Responsible for practical		Vacant Teach. Assist. 27							
activity			Vacant	Teach. A	ssist. 29				
·			Assist.	Dr. Corir	a Ionesc	cu			
				Assist.	Dr. Mara	Rusnac			
The fo	ormativ	ve catego	ry of	DS					
the di	scipline	9	•						
Compulsory discipline		Compulsory							
	hours/week		ho	urs/semes	ster			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 practical activities	Amphitheater with projection system.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
	• 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	
Specific	
objectives	
_	
	1 6
	conditions is realised.
	• Theoretical study of the dentinal plague and its treatment to restore
	*
	Performing references documentation.
competences General objectives Specific	 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. Use of assimilated notions in new contexts. Applying theoretical notions in the practical work. Establishing interdisciplinary correlations within studied domains. Knowledge of the clinical forms of tooth cavities, positive and differential diagnosis, and treatment of a simple tooth cavity. Acquiring the notions of normal and pathological hard tooth structure. 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. Developing the ability to apply the theoretical knowledge by preparing and filling tooth cavities.

LECTURES			
Teaching methods	Lecture, systematic interactive exposure.		
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.						
	Ŭ V						
	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,						
methods	and filmed demonstrations.						
Practical	Exercises of instruments recognition and description.						
activity	 Preparation of different types of Black cavities on model and on the 						
carried out	 Preparation of different types of Black cavities on model and on the phantom. 						
by students	 Filling the cavities with different materials studied in the lecture. 						
by students	 Preparation of Sista cavities on the phantom and filling the cavities 						
Contort	with composite resin. 1. Presentation of the instruments and the devices needed for the treatment						
Content							
	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 V on the model. Test.					
	5. Application of the ce	ement base and pulp cap	pping on the cavities			
	prepared.					
	6. Filling the cavities of	n molars with amalgam				
	7. Preparation of SISTA	A 1.2 and 2.1- slot and t	unnel cavities on the model.			
	8. Preparation of SISTA	A 2.2 and 3.3 on molars	and 2.2, 2.3 on frontals on			
	the model.					
	9. Application of the co	omposite resin on the Si	sta 2.2 on posterior and			
	Sista 2.3 anterior caviti	es.				
	10. Preparation of class	s I, II, V cavities after B	lack on the phantom.			
	11. Preparation of a MO	OD cavity on the phanto	om and filling it with			
	amalgam.					
	12. Preparation of a SISTA 2.4 cavity on the phantom and filling it with					
	composite resin.					
	13. Recap lab.					
	14. Practical exam- cavity preparation on the model, interview.					
Bibliography	1.Summitt J.; Robbin	ns W.; Schwartz R. :	Fundamentals of operative			
	Dentistry Ed. Quintessence 2013.					
	2. Ecaterina Ionescu (coordinator): Manual pentru rezidențiat -					
	stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021.					
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 Dharmooy "Juliy Hotiogeny"
Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	IV Prosthetic Dentistry and Dental Materials
Discipline	Dental Propaedeutics and Esthetics
Cours title	DENTAL TECHNOLOGY
Responsible for lecture	Sef. Lucr. Dr. Cristina Gasparik
Responsible for practical	Sef. Lucr. Dr. Cristina Gasparik
activity	Sef lucr. Dr. Alexandru Grecu
	Asist. Univ. dr. Delia Moise
	Asist. Univ. dr. Andra Clichici
The formative category of	DS
the discipline	
Compulsory discipline	Compulsory

37	a	hours/week		hours/semester			<i>a</i>	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 Dental Morphology.			
(Preliminary conditions)	 Notions of Chemistry and Physics. 			
	• Notions of Dental Technology in Fixed Prosthodontics.			
	 Knowledge of Dental Morphology and Occlusion, 			
	ability to do different wax-ups.			
Requisites for lectures	• Amphitheater with multi-media system for projection			
and practical activities	• 70% of the lectures - Compulsory presence.			
	• Laboratories with specific dental laboratory equipment			
	for the practical activities; dental simulation units.			
	• 100% of practical activities - Compulsory Presence.			
	 Laboratory coat, medical shoes. 			
	Completion of required practical tasks.			

Professional competences	 The ability to use specialized terminology, properly and in context. The accumulation of basic knowledge related to removable dentures. Knowledge of technological steps that are used in the dental office and dental laboratory in manufacturing removable and
	 complete dental prostheses. Acquiring general information regarding complete edentulous patients; partial edentulism classification, consequences, specific treatment of each class of partial edentulism. Acquiring general principles in making removable partial dentures (RPD) and complete dentures (CD).
Transversal competences	 Ability to use the information in a new context. Ability to apply the theoretical knowledge on a practical basis. Ability to establish connection between the studied subjects.
General objectives	 Acquiring information related to specific technological processes involved in the fabrication of most types of removable dentures.
Specific objectives	 Accumulation of basic knowledge related to the examination of edentulous patients. Acquiring information regarding general steps in the fabrication of complete dentures and removable partial dentures. Understanding the biomechanical, bio functional and
	prophylactic principles in making each type of denture.

		LECTURES
Teaching	•	Lecture, Systematic and interactive presentation, Inquiry-
methods		based learning.

	Oral presentation, PowerPoint and video presentations.
Content	1. The edentulous patient. Basic notions about the exooral and endooral
	examination. Denture bearing areas and peripheral seal areas in the
	maxillary and mandibular arches.
	2. Complete dentures: general principles in the fabrication of CD,
	components, clinical and laboratory steps in making a complete denture.
	3. Stock trays for preliminary impression. Impression materials,
	requirements, and fabrication steps of preliminary impressions. The
	preliminary cast. Materials used for the fabrication of dental casts and
	fabrication steps.
	4. Custom impression trays. Types of materials used and fabrication
	steps. Requirements of a functional impression.
	5. The final cast – fabrication techniques, materials, requirements.
	Fabrication of the occlusal rims. Materials, techniques, requirements.
	Registration of the maxillo-mandibular relationships and transferring to
	the articulator.
	6. Fabrication of the waxed-up trial denture. Arrangement of artificial
	teeth for complete dentures: general principles, individual principles.
	7. Transforming the wax-up denture into the final acrylic denture.
	Investment. Polymerization of the resin base for a complete denture.
	Cleaning and finishing the denture. Laboratory steps for relining
	procedures.
	8. Removable partial dentures (RPD): classification, types, components.
	Partial edentulous arches: classification, basic information for the intro-
	oral examination.
	9. The provisional acrylic partial denture: general principles for
	fabrication and laboratory steps.
	10. RPDs with metal framework - laboratory steps. The fabrication of
	the diagnostic cast and the survey analysis. Design of the components.
	11. Fabrication of the master cast. Preparing the cast for duplication.
	Waxing the framework of RPDs.
	12. Transforming the wax pattern into the metal framework. Finishing
	and polishing of the metal framework of the RPD.
	13. Arrangement of the artificial teeth. Transforming the waxed-up
	denture into the final denture.
	14. Types of precision attachments used as retainers for RPDs and
	particularities in the fabrication steps. Overdentures – overview of
	technological steps.
	PRACTICAL ACTIVITIES
Teaching	Power-point and video presentations.
methods	• Live practical demonstrations.
Practical	 2 preliminary casts, 2 custom trays, 2 occlusal rims, mounting of
activity carried	the casts on an articulator, waxed-up complete denture, Exercises
out by students	for the classification of partially edentulous arches, 2 survey
~j »vuuviitb	analyses, 4 block-out and relieving procedures, 4 wax patterns.
Content	1. Introduction to Complete dentures. Preliminary cast fabrication.
Somenie	1. Introduction to complete dentaries. I remininary cast fabrication.

	2. Custom tray fabrication.
	3. Fabrication of the master cast Fabrication of the occlusal rims.
	4. Recording of maxillo-mandibular relationships. Mounting of the casts on the articulator.
	5. Fabrication of the wax base for CD. Arrangement of the
	artificial teeth.
	6. Fabrication of the wax base for CD. Arrangement of the
	artificial teeth.
	7. Transforming the waxed-up denture into the final acrylic denture. Finishing, polishing.
	8. Introduction into Removable partial dentures fabrication.
	Classification of partial edentulous arches.
	9. The survey analysis. Drawing the design of the metal
	framework of RPDs.
	10. Block-out and relieving of the master cast. Preparing the master
	cast for duplication. Obtaining the duplicated cast. Kennedy
	Class I and II.
	11. Block-out and relieving of the master cast. Preparing the master
	cast for duplication. Obtaining the duplicated cast. Kennedy
	Class III and IV.
	12. Waxing the framework of RPDs in different types of edentulous
	classes. Kennedy Class I and II.
	13. Waxing the framework of RPDs in different types of edentulous
	classes. Kennedy Class III and IV.
	14. Revision.
Bibliography	 Gasparik C. Dental Technology- Course syllabus- Electronic format 2022-23.
	2. Ting-Liang Chang, Daniella Orelana, John Beumer III.
	Kratochvil's Fundamentals of Removable Partial Dentures. 1st
	Edition. Quintessence, 2018.
	3. The Glossary of Prosthodontic Terms: Ninth Edition. J Prosthet
	Dent. 2017 May;117(5S):e1-e105. doi:
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	4. Alan B. Carr, David T. Brown. McCracken's Removable Partial
	Prosthodontics. 13th Edition. Elsevier, 2015.
	5. Johnson T, Patrick DG, Stokes CW, Wildgoose DG, Wood DJ.
	Basics of Dental Technology: A Step by Step Approach. Wiley,
	2015.
	6. George Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob.
	Prosthodontic Treatment for Edentulous Patients - Complete
	Dentures and Implant-Supported Prostheses. 13th Edition.
	Elsevier, 2012.
	7. Duncan J. Wood, Tony Johnson. Techniques in Complete
	Denture Technology. 1st Edition. Wiley-Blackwell, 2012.
	8. R. M. Basker, J. C. Davenport, J. M. Thomason. Prosthetic
	Treatment of the Edentulous Patient. Wiley-Blackwell, 2011.

	 Rodney D. Phoenix, David R. Cagna, Charles F. DeFreest. Stewart's Clinical Removable Partial Prosthodontics, 4th Edition. Quintessence, 2008. 				
	10.Hugh Devlin. (Complete dentures. Spring	ger, 2002.		
Evaluation:	Written exam Practical exam		Activity during the semester:		
Percent of the final grade:	50%	25%	25%-		

Institu	ition fo	n anoduc	to and	Univer	University of Medicine and Pharmacy "Iuliu Hatieganu"					
	Institution for graduate and postgraduate studies			•						
		e studies		Ũ	Cluj-Napoca					
Facult	t y			Dental	Medicine					
Doma	in of st	udy		Health						
Acade	emic de	gree		Dental	Medicine	in Engl	ish			
Level	of cour	se		I and II	- License	and mas	sters			
Quali	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			5 Intern	nal Medic	ine				
Discip	line			Medica	al clinic IV	V				
Cours	title			INTEF	RNAL MI	EDICIN	E			
Responsible for lecture			Lecturer Călin Vasile Vlad							
Respo	nsible i	for pract	ical	Lecturer Călin Vasile Vlad						
activit	y			Lecturer Teodora Gabriela Alexescu						
	-			Lecturer Assistant Mircea Vasile Milaciu						
				Lecturer Assistant George Ciulei						
				Assistant Professor Vacancy 130						
				Assistant Professor Vacancy 130						
The fo	ormativ	ve catego	ry of	DD						
	the discipline									
Comp	Compulsory discipline		Compulsory							
			/week	ho	ours/semester		Type of			
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment	
3	1	1	2	14	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 objectives	 Presenting the semiology data regarding the symptoms, signs, 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 objectives	 Learning the correct technique of anamnesis and clinical examination, conducting the future investigations and formulating the syndrome diagnosis. Development of the medical rationale for each case.

	LECTURES
Teaching methods	Lecture, Systematic and Interactive Presentation.
Content	1. Introductory course. General notions of semiotics, symptom, sign, syndrome, diagnosis. Patient records, disease history. Particularities of the anamnesis in dental pathology.
	2. 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.
	5. Respiratory tract semiotics. Pulmonary condensation syndrome. Pleural fluid syndrome. Bronchitis syndrome. Mediasinal syndrome.
	6. 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

	austam Additional anominations in uningry system disasses			
	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	Anomasia Oligia Internitation Deilding dia masia			
Practical	Anamnesis, Clinical examination, Building a diagnosis.			
activity carried				
out by students				
Content	1. Patient records. Classical examination method, diagnosis of 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. Assessment 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			
	comprementary methods of myosugation, blood pressure			

		tuo oo udi o ou ou hay			
	measurement, elec				
	10.Evaluation of a valvular patient – significance for the dental				
	practice. Differential diagnosis significance in the coronary chest				
	pain.				
		ch and bowel symptoms. F	Physical examination.		
	Dyspeptic syndrom				
	12.Liver disease, bile	duct and pancreatic symp	toms and signs; physical		
	exam. Jaundice sy	ndrome, ascites and the liv	ver failure.		
	13.Characteristics of	lumbar back pain, micturit	ion and dieresis		
	disorders. Physica	l examination of the genito	or-urinary system.		
	14.Anemic syndrome	e - signs at the oral cavity.	Leukemia syndrome –		
	signs at the oral ca	avity. Haemostasis assesen	nent. Emergency		
	evaluation of a ble	eeding syndrome.	C ·		
Bibliography	1. The lecture.				
	2. Sâmpelean Dorel, Vlad Vasile-Călin, coordonatori. Clinical				
	Semiology. First english edition. Editura Bioflux Cluj-Napoca,				
	2019.				
	3. D. Sâmpelean, sub redacția. MANUAL DE SEMIOLOGIE pentru				
	Medicina Dentară Ediția a III-a. Ed. Medicală Universitară "Iuliu				
	Hațieganu" Cluj-Napoca, 2018.				
	4. Macleod's Clinical Examination, 14th Edition. Editors: J. Alastair				
	Innes Anna Dover Karen Fairhurst. 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	50%	40%	10%		
final grade:			, .		
8					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 (PREVENTIVE
	DENTISTRY)
Responsible for lecture	Lecturer Dr. Andrei Picoș
	Lecturer Dr. Chifor Radu
Responsible for practical	Lecturer Dr. Andrei Picos
activity	Lecturer Dr. Iulia Badea
The formative category of	DS

the discipline									
Compulsory discipline		Compu	lsory						
Year	Sem	hours C	/week LP/S	Ho C	Hours/semester C LP/S SI		Total	Credits	Type of Assessment
3	1	2	3	28	42	30	100	4	Е

Pre-conditions	• Basic knowledge of anatomy, physiology and physiopathology
(Preliminary	of 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 competences	• The capacity of utilizing the specialty terminology in an adequate manner and in context.
	 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 competences	 The capacity of employing the learned notions in a new context To apply the theoretical knowledge in the practical activity Establishing interdisciplinary correlations between the studied subjects.
General objectives	 Acquiring knowledge of dental pathology prophylaxis for children and adults.
Specific objectives	 Acquiring knowledge of dental prevention for children and adults. 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
methods	presentations, 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. 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.
	9. The professional brushing procedure. Indications, technique,
	precautions. The supra gingival scaling. Supra gingival scaling
	instruments (manual and mechanical).
	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. The professional topical fluoridation – Uses of fluoride
	pharmaceuticals. Commercial products.
	13. Acute and chronic fluoride intoxication. Administration of
	fluoride pharmaceuticals.
	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
methods	the model.Demonstrations on the model. Demonstrations on a
monous	clinical case.
	timbul outer

Practical	• Completing the medical chart, performing extra-oral and intra-oral
activity carried	examinations, completing the dental chart, calculating the
out by students	international oral healthindices, manual and ultrasonic scaling
	techniques, professional brushing technique, preventive sealing
	technique, fluoride treatments provided in dental offices,
	preventive dental techniques on 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.
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L	10.100///10 3 31/ 10051 1.

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	Manson Publishing, Ltd., 2012.
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	toothbrushing, for preventing and controlling periodontal diseases
	and dental caries". Cochrane Oral Health Group, Cochrane
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	intervention oral healthcare for people with dental phobia: a patient
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	Tugwell, Vivian Welch, Anne-Marie Glenny. "Water fluoridation
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L I	to the prevention of dental carles . Coemane Database Syst

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	Children's Teet controlled trial –		(FiCTION) randomised IC Oral Health. 2020; 20:
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Evaluation:	4. doi: 10.1186/1 Written exam	472-6831-9-5. Practical exam	Activity during the
	W HUCH CAAIII		semester:
Percent of the final grade:	40%	40%	20%

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"							
postgraduate studies			Cluj-Napoca						
Faculty			Dental Medicine						
Domai	in of st	udy		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			ANESTHESIA AND SEDATION IN DENTAL						
			MEDICINE						
Responsible for lecture			Prof. Dr. Rotar Horațiu						
Responsible for practical			Assist. Ostaș Daniel						
activity			Assist. Țermure Dragoș						
				Assit. Ciurea Mircea					
				Assit. Muresan Ovidiu					
The formative category of			DS						
the discipline									
Compulsory discipline			Compulsory						
	Year Sem	hours/week		hours/semester				a 11	Type of
Year		С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	1	2	2	28	28	44	100	4	E

Pre-conditions	•	The anatomy of the head and neck. Physiology.
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(Preliminary conditions)	•	Pathophysiology. General semiology and the dento-maxillary apparatus. 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 lectures and practical activities	•	Amphitheater with projection system (projector). Dental offices with dental chairs, salons, intervention rooms.

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	• The course offers students of the 3rd year of Dental Medicine of the
objectives	Faculty of Dental Medicine theoretical notions of local anesthesia
	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	• The acquisition of practical notions of specific examination of the
objectives	specialty.
	• The theoretical and practical acquisition of local and loco-regional
L	

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 incised names block (intropred and extraored technique)				
	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				
activity carried	of local and loco-regional anesthesia on the mannequin and on				
out by students	patients.				
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				
	10. The acquisition of techniques of locoregional anesthesia in the upper				

		large palatine nerve and dentistry by performing			
	nasopalatine nerve) in dentistry by performing them on patients. 11. Acquiring the techniques of locoregional lower jaw anesthesia (oral				
			by performing them on		
	patients.	allestitesta) ili delitisti y	by performing them on		
		locoregional lower jaw	anasthasia tashnisuas		
	-	2 3	1		
	•		nerve anesthesia, oral nerve		
		y by performing them o	^		
	-		v anesthesia techniques in		
	dentistry by performin				
		clinical examination. Th			
			t in patients with different		
		axillofacial pathologies.			
Bibliography		y F. Handbook of local	anesthesia. Elsevier Health		
	Sciences, 2020.				
		abelle, et al. Chiru	8		
			Health Sciences, 2017.		
			l'exposition au sang (AES)		
			viral (AEV). COREVIH-		
	Normandie, 2019				
			isthesie. Cevey Concept		
	Communication i	n Wort und bild; Offen	bach am Main, 2003		
			o-chirurgicale în medicina		
	dentară. Editura U	JMF Iuliu Hatieganu 20)14.		
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	Dentistry. Anesth	Prog 65:e1–e18 2018.			
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	children underge	oing dental treatment	. Cochrane Database of		
			art. No.: CD003877. DOI:		
	10.1002/14651858.CD003877, pub5.				
			prevention for procedural		
		esia 2020, 75, 374–385.			
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	50%	40%	10%		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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

Discip	line	line		Surgery clinic IV					
Cours	title			GENE	RAL SUI	RGERY	. ANEST	'HESIA a	nd
				INTEN	SIVE CA	ARE			
Respo	nsible	for lectu	re	Assoc.	Prof. Dr	. Sorin '	Г. Barbu		
Respo	nsible	for pract	tical	Lecture	er Dr. Tra	ian Oniu			
activit	activity		Asist. Dr. Emilia Patrut						
			Asist. Dr. Gabriel Petre						
The formative category of			DD						
the dis	scipline	9							
Compulsory discipline			Compu	lsory					
••	hours/week		Hours/semester		— 1	a	Type of		
Year Sem	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	1	1	1	14	14	22	50	2	Е

Pre-conditions	• Students attending the course need to have successfully
(Preliminary	accomplished the courses of pathology, physiopathology and
conditions)	medical semiology.
Requisites for	• Students must be in time for the lectures. Use of mobile phone
lectures and	during 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.

 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
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
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General objectives At the end of the course, students are expected to be able: Objectives At the end of the course, students are expected to be able: Objectives At the end of the course, students are expected to be able: Objectives At the end of the course, students are expected to be able: Objectives Skills of the course, students are expected to be able to: Objectives At the end of the course, students are expected to be able to: Objectives At the end of the course, students are expected to be able to: Objectives At the end of the course, students are expected to be able: Objectives Ormon stargical diseases. Starting with asepsis and antisepsis, hemorrhage and hemorshage, are starting with asepsis and antisepsis, hemorrhage and hemorshage and hemorshage, are expected to be able: Objectives In the end of the course, students are expected to be able: Objectives In demonstrate in depth knowledge of surgical semiology, starting with asepsis and antisepsis, hemorrhage and hemorshage, are expected to be able to: Inductive and the course, stude		
 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 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. Starting with asepsis and antisepsis, hemorrhage and hemosrtasis, 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 diseases. 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. 		 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
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 communication 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 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. • 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 diseases), are expected to be able to: • demonstrate the clinical skills and methods required to clinically define common surgical diseases.		
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approach to common surgical diseases.Specific objectivesAt 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.		· ·
Specific objectivesAt 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.		• • • •
 objectives 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. 	Specific	
clinically define common surgical diseases. Students will have the ability.	objectives	 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:
		clinically define common surgical diseases. Students will have
		•

 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. 	diseases.
- demonstrate a basic knowledge of common and argent	 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

	LECTURES
Teaching methods	• Theoretical lectures are exposed as Power Point interactive 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).
	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
Taaahing	
Teaching	Practical demonstration with interactive discussions.
methods	
Practical	• Students will have to recognize surgical instruments, to perform
activity carried	wound dressing and bandages, sutures and all maneuvers
out by students	demonstrated by 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 c	diagnosis according to the	physical examination				
	results, and laboratory and imagistic findings.						
		nd performing a physical ex	amination in a surgical				
	patient.						
	0 0	osis according to the physic	cal examination results,				
	and laboratory and	nd imagistic findings.					
Bibliography	1. David L Dunn et	all, editors. Schwartz's Prin	ciples of Surgery, 11 th				
	Edition. New Yor	rk: Mc Graw Hill, 2019.					
	2. Bongard FS, Stan	nos MJ, Passaro E Jr, editor	s. Surgery: A Clinical				
	6	York: Churchill – Livingston					
	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				
	WINCH CAAII	i lacucai txaill	semester:				
Percent of the	50%	30%	20%				
final grade:							

postgr Facult Domai	у	studies			apoca					
	•				Cluj-Napoca					
Domai	in of stu			Dental	Medicine					
		udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engli	ish			
Level of	of cour	se		I and II	- License	and mas	sters			
Qualif	ication			Doctor	of Dental	Medicin	ne			
Depart	tment			4 Com	nunity m	edicine				
Discipline		Hygien	e							
Cours title			HYGIENE							
Responsible for lecture		Prof. Dr. Lucia Lotrean								
Responsible for practical		Prof. Dr. Monica Popa								
activity	У			Prof. Dr. Lucia Lotrean						
				Lecture	Lecturer Dr. Bogdana Năsui					
The fo	rmativ	e catego	ry of	DD						
the dis	cipline									
Compulsory discipline		Compulsory								
NZ.	G	hours	week	ho	urs/semes	ter	T (1		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
3	1	1	1	14	14	22	50	2	E	

Pre-conditions -

(Preliminary conditions)		
Requisites for lectures	• Use of mobile phone during the lectures is not accepted,	
and practical activities	being 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 competences	 Critical analyses of the quality of the environment from medical 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 competences	Skills for communication with patients.Involvement in research activities (e.g. writing a medical article).
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 objectives	• At the end of the courses the students will be capable to design, use and justify in a correct manner measures for health promotion and disease prevention in the dentistry field both at individual and community level.
Specific objectives	 At the end of the courses the students will be capable to: 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). To use the principles of food and nutrition hygiene (diet, food products, relationship with health) in the dentistry field. 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.				
	≜				
	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				
	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				
methods	demonstration. Observations based on medical articles. Recorded demonstrations				
	• Exercises for risk assessment. Presentation of questionnaires.				
Practical	• Exercises for assessing and characterization of the microclimate				
activity carried	in 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				

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Content	1. Assessment of microclimate conditions in medical institutions and
	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 .
	 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 exposure, management, legislative measures.
	8. Liquid waste from medical practice: classification, origin, risks of
	exposure, management, legislative measures.
	 9. Antiseptics and disinfectants: definition, classification, conditions
	for use, indications and contraindications in dental practice.
	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
	evaluation of risks.
	12. Study case regarding the role of water from dental institutions in
	relation with human health.
	13. Methods for assessment of food intake at individual and group level
	with applications in the field of dentistry.
	14. Study case: quantitative and qualitative assessment of the diet of a
	children group in relationship with the risk for caries.
Bibliography	1. Popa Monica. Environmental Hygiene - Practical Guide for
Dibilography	Medical Students Editura Medicală Universitară "Iuliu Hațieganu"
	Cluj-Napoca, 2018, 150p.
	2. Popa Monica «Food Hygiene - Textbook for Medical Students»,
	Editura Medicală Universitară "Iuliu Hațieganu" Cluj-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.
	4. Sîrbu Dana, Curșeu Daniela, Popa Monica – "Igienă – suport de
	curs pentru studenții Facultății de Medicină Dentară", Editura Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, 2014, ISBN
	978-973-693-563-3.
	5. Wood P.R "Cross Infection Control in Dentistry. A practical
	Illustrated guide" Wolfe Publishing Ltd, 1992.
	6. Yassi A., Kjellstrom T., de Kok T., Guidotti T.L "Basic

	7. Hygiene – Lecture and practical activities - updated materials in electronic format.				
Evaluation:	Written exam	Practical exam	Activity during the semester:		
Percent of the final grade:	50 %	50 %			

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hatieganu"							
-			Cluj-Napoca						
Faculty			5	Medicine					
	in of st	udv		Health					
-	emic de			Dental	Medicine	in Engl	ish		
	of cour	<u> </u>			- License	U			
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discipline			Prosthe	etic Dentis	stry				
Cours title			PROSTHETIC DENTISTRY						
Responsible for lecture			Assoc Prof. Dr. Andrea Chisnoiu						
Responsible for practical			Assoc Prof. Dr. Andrea Chisnoiu						
activit	t y			Assist.	Assist. Dr. Roxana Triștiu				
				Assist. Dr. Manuela Taut					
		ve catego	ry of	DS					
	scipline								
Compulsory discipline			Compulsory						
Veen	h Sam	hours	week	ho	urs/semes		Tatal	Candita	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	2	4	28	56	66	150	6	Е

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

1				
	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 objectives	• Knowledge of all types of single-tooth fixed prosthesis (reconstitution, 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 methods	• Lectures, systematic oral presentation, interactive discussions.					
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. Crown restoration by inlay (indications, contraindications, advantages, disadvantages). Preparing teeth for inlays. Accidents and complications after the application of inlays.					
	4. 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.					
	5. Dental crowns (indications, contraindications, advantages, disadvantages).Monolithic crowns. Preparing teeth to for monolithic 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. Monolithic 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-and-							
	cores 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,							
methods	video 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.							
out by students	• Impression taking and discussions over impressions.							
	• Examination of complete arch and partial impressions; Clinical							
	examination carried out among students.							
Content	1. Knowledge of examination and burs. Work safety instructions.							
	Training for use of simulators and lab motors. Distribution of the							
	models.							
	2. Preparation of M3 for monolithic crown, vertiprep.							
	3. Preparation of M2 for a monolithic crown (chamfer).							
	4. Preparation of M1 for partial crown (overlay). Test 1.							
	5. Preparation of M1for different types of inlays, endocrown, tabletop.							
	6. Preparation of PM2 for a monolithic ceramic crown.							
	7. Preparation of PM2 (without adjacent teeth) for a metal-ceramic							
	crown.							
	8. Preparation of PM1 (with adjacent teeth) for a metal-ceramic crown.							
	9. Preparation of CI for full ceramic crown with stratification.							
	10. Preparation of LI for veneers. Test 2.							
	11. Preparation of PM1 for an all ceramic crown, stratified systems.							
	12. Preparation of C for a substitution crown (cast post and core).							
	13. Presentation of clinical stages for dental crown replacement. Partial							
r	·							

	and full arch impress	sions (dental office). I	Patient clinical examination.		
	14. Preparation of prarotary instruments.	actical examination. F	Revising the knowledge and		
Bibliography	 Shilligburg T.H., prosthodontics" Fou Rosenstiel S.F., L prosthodontics", Fift Sssentials of Esth and function,vol.two 9780723435556. Heasman P. Master Dentistry and Othod 2012. Wassell R, Nohl I Clinical Application 459 p. Ritter A, Boushel Operative dentistry. Ricketts D, Barlet Elsevier Churchill L 	rth edition. Quint. Pu and M.F., Fujimoto J th edition.Mosby Co: etic Dentistry-Smile I 0.2016, Jonathan B. L er dentistry - Restorat lontics. Third Edit. Ch F. Extra-Coronal Rest J. Second. Springer In I L, Walter R. Sturdey Seventh. Elsevier, ed tt D. Advanced Opera ivingstone; 2011. Practical prosthodont	D ,,Fundamentals of fixed bl. Co. Chicago-Tokyo, 2012. J. ,,Contemporary fixed St.Louis, 2016. Design integrating esthetics evine DMD, Elsevier, ISBN: ive Dentistry, Paediatric nurchill Livingstone Elsevier; orations; Concepts and ternational Publishing; 2019. vant's Art and Science of itor. St. Louis Missouri; 2019. tive Dentistry. Edinburgh: ics for the dental team. BDJ		
Evaluation:	Written exam Practical exam Activity during the semester:				
Percent of the final grade:	60%	40%	50% from practical exam grade		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hatieganu"
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	II- Functional sciences
Discipline	Pharmacology
Cours title	PHARMACOLOGY
Responsible for lecture	Lect. Dr. Ștefan Vesa
Responsible for practical	Lect dr. Maria Neag
activity	Lect dr. Octavia Sabin
	Lect dr. Armean Sebastian
	Assist dr. Crăciun Cristian
	Assist dr. Sabina Istrătoaie
The formative category of	DF
the discipline	

Compulsory discipline			Compu	lsory						
	0		q	/week	ho	urs/semes	ter	m (1		Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
3	2	2	2	28	28	44	100	4	Е	

Pre-conditions	 Knowledge of phisiologic signaling by edogenous 						
(Preliminary	molecules.						
conditions)	Essential knowledge of microbiology.						
	Knowledge on phisiological mechanisms.						
Requisites for	• Attendance at the course will strictly comply with the						
lectures and practical	provisions of the Faculty's didactic activity regulations.						
activities	• Unjustified lateness of students to classes and practical work						
	will not be tolerated as it proves disruptive to the educational						
	process and will not be motivated.						
	• Students will attend classes/practical work with their mobile						
	phones turned off. Telephone conversations during the course						
	will not be tolerated, nor will students leave the lecture hall to						
	answer personal telephone calls.						
	Food and drinks are not allowed during the course/practical						
	sessions.						
	• Attendance at the practical activities will strictly comply with						
	the provisions of the Faculty's didactic activity regulations.						
	• Students must wear white coats and have a notebook for						
	practical work.						
	• Each student must fill in his portfolio and the practical skills						
	notebook edited by the faculty with the specific data.						
	• Students' attire must be decent and respect the environment in						
	which practical work is carried out.						
1	which proched work is carried out.						

	Γ					
Professional	• To know the general aspects related to the medicine.					
competences	• To know and correctly prescribe pharmaceutical forms.					
	• Write a recipe correctly.					
	• To effectively use information sources on medicines.					
Transversal	• To have the ability to communicate effectively with the patient.					
competences	• To demonstrate concern for professional improvement, by training critical thinking skills.					
	• To show interest in professional training, consulting bibliographic sources.					
	• To demonstrate involvement in research activities, such as the development of scientific articles.					
	• To demonstrate the ability to use digital means for medical information and communication.					
	• Demonstrate ability and concern for professional collegial					
	communication. Demonstrate a concern for teamwork to complete a					

	project.					
General objectives	• At the end of the course, students must form an information core regarding: aspects related to medicine; the regulations at national and international level; general aspects of pharmacokinetics, pharmacodynamics, the drugs that are most frequently used in dentistry; rules for prescribing antibiotics, analgesics and anesthetics.					
Specific	• At the end of the course students will be able to:					
objectives	• To know the importance of establishing the major criteria for drug effectiveness and the benefit/risk ratio.					
	• To know the pharmacokinetic-pharmacodynamic model.					
	• To establish the criteria for selecting drugs according to the therapeutic objective.					
	• To know the principles of therapeutic strategy in the treatment with antibiotics, analgesics, anesthetics and other specific drugs.					

	LECTURES						
Teaching methods							
Content	1. General pharmacology. General pharmacocynetics - part 1.						
	2. General pharmacology. General pharmacocynetics - part 2.						
	3. General pharmacology. General pharmacodynamics and signaling						
	systems (eg. Colinergic and adrenergic vegetative nervous system,						
	organization and drugs that act on this level).						
	4. Chemotherapy: Antibiotics (1), regulations for prespcription.						
	5. Chemotherapy: Antibiotics (2) and antiseptics.						
	6. Chemotherapy: Antifungal, antiviral, anticancerous.						
	7. Central nervous system: general anesthetics (principles) + anxiolytics,						
	sedatives (medication for conscious sedation).						
	8. Pain treatment: local anesthetics and local anesthetic adjuvants.						
	9. Pain treatment: paracetamol, NSAIDs, opioids (principles).						
	10. Inflammation: NSAIDs and glucocorticoids, immunomodulators,						
	antihistamines.						
	11. Respiratory: bronchial asthma and immuno-allergic adverse						
	reactions, emergencies.						
	12. Cardio-vascular medication, Antiplatelet agents, anticoagulants,						
	hemostatics.						
	13. Gastrointestinal medication and diabetes.						
	14. Agents that affect bone density (osteoporosis) Medicines that affect						
	oral health. Adverse drug reactions with repercussions in the oral cavity.						
	PRACTICAL ACTIVITIES						
Teaching							
methods							
Practical							
activity carried							
out by students							

Content	1 General informatic	on about the medicine	Information sources on				
Content	1. General information about the medicine. Information sources on medicines. ATC classification of drugs. Original and generic drugs.						
			pharmaceutical forms				
	according to the state						
			o dental medicine. Routes of				
	drug administration.	inis: i ornis specific t					
	4. Medication history	I					
	5. Doses and dosage.						
		on. Exercises in writin	ng typical recipes				
	* *		Treatment compliance				
	U 1		sulin and glucocorticoid				
	administration scenar						
	8. Pharmacovigilance	· · ·					
	9. Anti-infective ther						
		n in dental medicine N	Jon-steroidal anti-				
	inflammatories. Opio						
		l anesthetics in dental	medicine.				
	ě – – – – – – – – – – – – – – – – – – –		ntal office: emergency				
	0	mia, allergic reaction					
		otic seizures, HTN em					
	13. Antiaggregants and	nd anticoagulants in r	elation to bleeding				
	interventions in the dental office.						
	14. Adverse reactions specific to dental medicine.						
Bibliography	1. Anca Dana Buzo	ianu – Farmacologie,	vol I, Ed. Medicală				
		iu Hațieganu" Cluj-N	-				
	2. Buzoianu Anca Dana – Farmacologie, vol II, Ed. Medicală						
		iu Hațieganu" Cluj-N					
			e practicii medicale. Ed.				
	Medicală, Bucure						
		harmD – Lippincott Il					
		Seventh, North Americ	armacology (14 th ed) Mc Graw				
	3. Katzung BG. – I Hill 2017.	Dasic and Chinical Fila	armacology (14° ed) Mc Graw				
		/M et al Pharmacolo	gy 8 th ed., Elsevier Churchill				
	Livingstone, 201		gy o ed., Eisevier churchin				
	6		armacology and Therapeutics,				
		w Hill Publishing, 20					
			limba română. Ed. Medicală				
		iu Hațieganu" Cluj Na					
		Dana – Farmacologie	-				
		iu Hațieganu" Cluj, 2					
	10.I. Fulga. Farmaco	ologie, Ed Medicala, I	Bucuresti, 2004.				
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				
Percent of the	70%	30%					
final grade:	70% 30%						

Institu	Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgr	postgraduate studies			Cluj-Na	Cluj-Napoca					
Facult	t y			Dental	Medicine	;				
Doma	in of st	udy		Health						
Acade	emic de	gree		Dental	Medicine	in Engli	ish			
Level	of cour	se		I and II	- License	and mas	sters			
Qualif	fication	l		Doctor	of Dental	l Medici	ne			
Depar	tment			2 Cons	ervative (Odontolo	gy			
Discip	line			Odonto	ology, End	dodontics	s and Ora	l Patholog	У	
Cours title			ENDODONTICS							
Responsible for lecture			Assoc. Prof. Ada Delean							
Responsible for practical			Assist. Dr. Corina Ionescu							
activit	y			Assist.	Assist. Dr. Lucia Dumitrașcu					
				Assist.	Assist. Dr. Mihai Merfea					
The fo	ormativ	ve catego	ry of	DS						
the dis	scipline	9								
Comp	Compulsory discipline			Compulsory						
Vee	Year Sem	hou	Sam	hours/week		hours/semester		Tatal	C 1''	Type of
rear		С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
3	2	2	4	28	56	41	125	5	Е	

Pre-conditions (Preliminary con Requisites for lea practical activitie	ctures and	Notions of anatomy and histology of teeth and pulp, notions of physiology and physiopathology of dental pulp, notions of pathological anatomy. Amphitheater with projection system. Laboratories with specific facilities for the practical courses.
Professional competences	 Unders pulp. Unders dental p The abia examin of pulp 	lity to use the terminology as appropriate and in the context. tanding the notions of morphology and physiology of dental tanding the notion of etiopathogenesis, pathophysiology and pulp morphopathology. lity to synthesize the notions of subjective and objective ation of the patient to establish a correct diagnosis in the case inflammation.

- 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 objectives	• Knowing some notions of morpho physiology and inflammation of the dental pulp and the means of treatment necessary for these diseases.
Specific objectives	 Acquiring the notions of morpho physiology and inflammation of the dental pulp. 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 preparatio	n of the root canal: manu	l instruments principles			
	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.	propuration. Totary instrum	ients, continuous			
		nt of the root canal: root c	anal irrigation.			
	principles, irrigation s		unui migunon.			
			rties preparation			
	13. Root canal obturation: materials used, properties, preparation.14. Root canal filling: cold lateral gutta percha condensation technique.					
		CAL ACTIVITIES	condensation teeninque.			
Teaching		ractive teaching presentat	ions			
methods		rueu ve teuening presentu				
Practical	• Exercises of app	lying the rubber dam syst	em on artificial arches.			
activity carried		ignize the instruments and				
out by students	Access cavity pr	0				
		neterization of the root can	nal and real working			
		ation, root canal preparation	Ū.			
Content		: presentation of the comp				
	application techniques	on the dental arches.				
	2. Instruments used fo	r the endodontic treatmen	t.			
	Making radiographs of	f teeth to be used for endo	odontic treatment			
	Analyzing X-rays.					
	3. Creating the access	cavity to the monoradicul	ar teeth and premolars.			
	4. Access cavity preparation on inferior and superior molars.					
		he root canals in the mono				
		eal working length by rad	iological examination			
	and the use of the elec					
		iseptic root canal treatment				
		iseptic root canal treatment				
	8. Endodontic treatment of frontal teeth and premolars- recap.					
	9. Mechanical and antiseptic root canal treatment on maxillary and					
	mandibular molars.					
		l preparation on monorad				
	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					
		dodontic filling by cold la	teral condensation at the			
	molars.					
Dibliggramher	14. Endodontic treatm		van Cahan'a Datharran f			
Bibliography	1. Louis H. Berman & Kenneth M. Hargreaves- Cohen's Pathways of the Pulp, 12th Edition, 2020.					
		-Ghid practic de Odo	ntologie și Endodonțio			
	-	Universitara "Iuliu Hatie	U , ,			
		cci – Endodontics – 2018.				
Evaluation:	Written exam	Practical exam	Activity during the semester:			

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

Treatite	-4i and fa	n ana dara	40.0md	I Indexed	aites of M	. di sin s s	a d Dh a ma		II.t.
Institution for graduate and postgraduate studies			University of Medicine and Pharmacy "Iuliu Hațieganu"						
- 0		e studies		Cluj-Na					
Facult	ty			Dental	Medicine				
	in of st			Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	l Medici	ne		
Depar	rtment			3 Oral	Rehabilita	ation			
Discip	oline			Prevent	tion in De	entistry			
Cours	Cours title		ORO-I	DENTAL	PREVI	ENTION	(PREVE	NTIVE	
			DENT	ISTRY)					
Respo	Responsible for lecture		Lecturer Dr. Chifor Radu						
-			Lecturer Dr. Iulia Badea						
Responsible for practical			Vacant	8 – Assis	tant prof	fessor			
activit	ty			Lecture	er Dr. Iuli	a Badea			
	•			Lecturer Dr. Andrei Picos					
The fo	ormativ	ve catego	rv of	DS					
	the discipline								
	Compulsory discipline		Compulsory						
		hours	/week	ho	hours/semester			Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	2	3	28	42	55	125	5	Е

Pre-conditions (Preliminary	Basic knowledge of anatomy, physiology and physiopathology of the oral cavity, dental propaedeution	
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

Transversal	 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. The sense is a fear playing the beam of patients in a new content.
	• 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 methods	Lecture, interactive, systematic presentation. Oral presentations, 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.						
	 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. 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.					
	nygiche for patients with manghant 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.					
	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	putonti					
Content	1. Preventing nosocomial infections. Means of transmitting infectious-					
content	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					
	individualized on age groups and closely related to the existing dental and periodontal features and restorations.					
	and periodontal features and restorations.					

							
	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.						
	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.						
	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. Koch G, Poulsen S, Espelid I, Haubek D. Paediatric Dentistry. A						
Dibilography	clinical approach. John Wiley & Sons, Ltd, Third Edition, 2017.						
	2. Sarakinakis M. Dental Assisting Notes.Dental assistants chairside						
	pocket guide. F. A. Davis company, 2017.						
	3. Eden E. Evidence-based caries prevention.Springer International						
	Publishing Switzerland, 2016. ISBN 978-3-319-40032-7. DOI						
	10.1007/978-3-319-40034-1.						
	4. Welbury R, Duggal MS, Hosey MT. Paediatric dentistry. Oxford						
	University Press, Fifth edition 2017.						
	 5. Găluşcan Atena, Junanca Daniela. Noțiuni de bază pentru asistenta 						
	de profilaxie stomatologică. Editura EUROBIT, Timișoara 2016.						
	6. Cuculescu Marian. Preventie primară în carie si parodontopatii. EDITURA DIDACTICĂ SI PEDAGOGICA, 2010.						
	EDITURA DIDACTICĂ ȘI PEDAGOGICA, 2010.						
	7. Dumitrache A, Lăzărescu F, Sfeatcu R, Stanciu D, Temelcea A.						
	Strategii preventiva adaptate grupelor de risc pentru afecțiunile						
	orale. Ghid de profilaxie 2013. <u>https://www.sser.ro</u> .						
	8. Ece Eden. Evidence-Based Caries Prevention ISBN 978-3-319-						
	40032-7 ISBN 978-3-319-40034-1 (eBook) DOI 10.1007/978-3- 319-40034-1.						
	9. Sarakinas M. Dental Assisting Notes. F. A. Davis Company- Philadelphia, 2015.						
	10. Fischer, Dena JoiPinto, AndrésTreister, Nathaniel S.,- Risk						
	Assessment and Oral Diagnostics in Clinical Dentistry, John Wiley						
	& Sons, Inc., 2013.						
	11. Lewis, Michael A. OJordan, Richard C. K.,-Oral Medicine,						
	Manson Publishing, Ltd., 2012.						
	12. Limeback, HardyComprehensive Preventive Dentistry-John						
	Wiley & Sons, Inc., 2012.						
	13. Lockhart, Peter BOral Medicine and Medically Complex						
	Patients John Wiley & Sons, Inc., 2012.						
	14. Patton, Lauren L. The ADA Practical Guide to Patients with						
	Medical Conditions, John Wiley & Sons, Inc., 2012.						
	15. Ritter VA, Boushell LW, Walter R, Sturdevant CM -Sturdevant's						

	art and science of operative dentistry, St. Louis, Missouri : Elsevier, [2019].				
Evaluation:	Written examPractical examActivity during the semester:				
Percent of the final grade:	40% 40% 20%				

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			5 Intern	nal Medic	ine			
Discip	line			Medica	l clinic IV	1			
Cours	title			INTEF	RNAL MI	EDICIN	E		
Responsible for lecture			Lecturer Teodora Gabriela Alexescu						
Responsible for practical			Lecturer Teodora Gabriela Alexescu						
activity			Lecturer Calin Vasile Vlad						
				Universitary Proffessor Vacancy 14					
				Assista	nt Vacano	ey 128			
				Assistant Vacancy 130					
				Assistant Vacancy 130					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline			Compulsory						
Year	Sem	hours	/week	ho	urs/semes	ter		~ "	Type of
		С	LP/S	C	LP/S	SI	Total	Credits	Assessment
3	2	1	2	14	28	33	75	3	Е

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

Professional competences	• Capacity of using the semiologic terminology in specific situations 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	• Applying the right technique of anamnesis and clinical examination,			
objectives	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 methods	• Practical teaching near the patient's bed.					
Practical activity carried	• Anamnesis, Clinical examination, Building a diagnosis.					
out by students						
Content	1 Objectives and imp	ortance of internal medici	no for dontistry proctico			
Content	U	ation with acute and chror	• •			
	_	a, chronic obstructive pul				
		Il examination in asthma,				
		ver, valvular diseases, info				
		preventive therapy of infe				
		diseases or bleeding in de				
		and presentations of isch				
	cardiomyopathy.	and presentations of isen	enne neart diseases,			
	y 1 _ y	gencies – the attitude of th	e dentist			
		lism, chronic pulmonary				
	•	and therapeutic conduct.	nourt discuses			
	7. Kidney disease $- cl$					
	8. Oeso-gastro-intestinal diseases, case presentations, emergencies,					
	therapeutic attitude.					
	9. Upper digestive bleeding, lower digestive bleeding – clinical					
	discussions, management of patient in emergency.					
		liver cirrhosis: aetiology,				
	complications – the dentist`s attitude in viral liver disease.					
	11. Biliary and pancreatic pathology – presentation of clinical cases,					
	discussions.					
	12. Diabetes mellitus: overview, case presentations.					
	13. Diabetes mellitus:	complications, importanc	e in dentistry.			
	14. Anaemia, leukocy	tosis, disorders of haemos	tasis, importance in			
	dental practice.					
Bibliography	1. Lectures.					
	2. Cecil – Textbook	of Medicine - Lee Goldr	nan, 23th edition, 2007.			
		Physical Examination and	l History Taking, 12th			
	Edition, 2017.					
		u (coord)- Internal Medici				
	· · ·	e of Internal Medicine, 20				
Evaluation:	Written exam	Practical exam	Activity during the semester:			
Percent of the						
final grade:						
8						

Institution for graduate and University of Medicine and Pharmacy "Iuliu Hațieganu"

postgraduate studies			Cluj-Napoca						
Faculty			Dental Medicine						
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	line			Dental	Radiolog	у			
Cours title			RADIOLOGY – MEDICAL IMAGING						
Respo	nsible f	for lectu	re	Lecturer Dr. Raluca Roman					
Responsible for practical			Lecturer Dr. Raluca Roman						
activity			Lecture	er 16 Vaca	ant				
				Assist.	50 Vaca	nt			
The fo	ormativ	ve catego	ry of	DD					
the dis	scipline	9							
Compulsory discipline			Compulsory						
37	Sem	hours/v	/week	hours/semester		— 1	~ "	Type of	
Year		С	LP/S	С	LP/S	SI	Total	Credits	Assessment
3	2	1	2	14	28	33	75	3	E

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	• Amphitheatre with projector.
lectures and	• Laboratories with radiological and specific equipment for
practical activities	practical activities in the field of radiology.

Professional	• The ability to use specialized terminology, properly and contextually.			
competences	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 methods	• Lecture, systematic oral and visual Power-point, interactive presentation.			
Content	 General radiology concepts. Radiation physics: how to produce X-radiation, the properties of X-radiation and their interaction with matter. 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.			

	0 Intro onol nodio quantity to abai qual regioni and a granter interest of					
	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.					
	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					
methods	solving exercises, practical, active, independent implementation.					
Practical	Performing radiographic examinations: dental intraoral					
activity carried	radiographs, panoramic radiographs, CBCT examinations, use of					
out by students	the CBCT imaging viewer with the necessary reconstructive					
	maneuvers, recognition of errors on intraoral and extra-oral					
	images, artifacts in CBCT, identification of anatomical structures					
<u>a</u>	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 recom	mendations				
	1 2	c tomography (CBCT) -					
	visualization program, standard sections, obtaining individualized						
	reconstructions, use of the program tools.						
		tomy in CBCT - recognit	tion of dental and				
	e	tomical structures in the					
	sequences of the						
		ther imaging systems: ul	trasound, CT, MRI; basic				
	notions .						
Bibliography	1. Hedeșiu M. Radiologie orală. Ghid practic de tehnică, anatomie și						
	semiologie radiologică. Editura medicală, București 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:							

Institu	Institution for graduate and			Univer	sity of M	edicine a	nd Pharm	acy "Iuliu	Hațieganu"	
postgr	postgraduate studies			Cluj-Napoca						
Facult	Faculty			Dental	Dental Medicine					
Doma	in of st	udy		Health						
Acade	emic de	gree		Dental	Medicine	e in Engli	ish			
Level	of cour	se		I and I	- License	and mas	sters			
Qualif	fication	l		Doctor	of Denta	l Medici	ne			
Depar	tment			Conser	vative Oc	lontolog	y 2			
Discipline			Odontology							
Cours title			MEDICAL PRACTICE							
Respo	nsible 1	for lectu	re	Lecturer Dr. Radu Chisnoiu						
Responsible for practical										
activit	y									
The fo	ormativ	ve catego	ry of	DS						
the dis	scipline)								
Compulsory discipline			Compulsory							
NZ	C	hours/week	ho	urs/semes	ester		Type of			
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
3	2	0	40	0	160			2	С	

Pre-conditions	• Patient examination knowledge, simple and complicated dental
(Preliminary	caries notions, dental prevention knowledge, notions about various
conditions)	methods 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	 Medical practice activities in dental offices.
competences	
Transversal	• Ability to work in a team during therapeutic procedures.
competences	• Applying theoretical notions in practical activities.
	• The use of assimilated notions in particular contexts, specific to each
	case.
General	• Acquiring the knowledge of the working of dental medicine units.
objectives	
Specific	• Knowledge of the working of dental medicine offices, the patients' and
objectives	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.					
	Knowledge of the medical records and documents used in the medical					
	unit.					
	2. The preparation of medical instruments: washing, degreasing, syringe					
	and needle control, sterilization, the maintenance and route of sterile					
	materials.					
	3. Elementary sterilization practices: chemical sterilization, steam					
	sterilization, modern techniques of sterilization.					
	The disinfection of the dental office.					
	4. Knowledge of the protection methods against infectious diseases in					
	the dental office.					
	5. Development of communication skills with the patient: patient					

	 communication skills terminally ill or non-cepatient's family. 6. Development of clin palpation, auscultation (measuring blood press 7. Diagnosing the sime 8. Basic patient care p 9. The knowledge of p 10. Identifying and hig 11. Scaling and profess 12. The preparation of etc. 13. Practicing topic an alveolar nerve anesthed 	according to: sex, age ooperating patient. Co nical examination skil a, percussion and spec sure, temperature, pul ple and complicated c rocedures. prophylactic procedure ghlighting bacterial pl ssional teeth brushing. I dental materials for i ad local anesthesia (su ssia etc.).	aries. es. aque. mpressions, fillings, luting			
Bibliography	-					
Evaluation: Percent of the	Written exam	Practical exam	Activity during the semester:			
final grade:			100%			

Institution fo	on for graduate and			sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"	
postgraduate	Cluj-Napoca								
Faculty	Faculty			Dental Medicine					
Domain of st	tudy		Health						
Academic de	egree		Dental	Medicine	in Engli	sh			
Level of cou	rse		I and I	I- License	and mas	sters			
Qualification	ı		Doctor	of Dental	Medicin	ne			
Department			12 Mee	dical educ	ation				
Discipline			Modern languages						
Cours title			ROMANIAN LANGUAGE – SPECIALITY						
D 11				NOTIONS					
Responsible			-						
Responsible	for pract	tical	Assist. Prof. Anca Hassoun						
activity									
The formativ	ve catego	ry of	DC						
the discipline									
Compulsory discipline		Compulsory							
TT G	hours	/week	ho	urs/semes	ter		~	Type of	
Year Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	

3	1, 2	0	4+4	0	56+56		2	С
~	T .	- ·		0 1 1	•	AT 1 1		

Pre-conditions	-
(Preliminary conditions)	
Requisites for lectures and	• To respect the rules and regulations for practical
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: speak about education for health. communicate with a patient. speak about dental prophylaxis. give explanations on the primary and the secondary dentition. make a presentation on some of the oral 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. The dental practise.							
	2. Verbs in past tense continuous.							
	3. Dental instruments.							
	4. Verbs in imperative.							
	5. The oral hygiene.							
	Reflexive verbs.							
	6. Numeral adverbs.							
	7. Making an appointment.							
	8. Degrees of comparison in adjectives.							
	9. Dental pain.							
	10. Nouns in the genitive case.							
	11. Gingivitis.							
	12. Verbs with pronouns.							
	13. Dental veneers.							
	14. Verbs in the conditional mood.							

	15. Dentures and implants.
	16. Verbs in the subjunctive mood.
	17. Deciduous teeth.
	18. Diminutives. Interrogative pronouns.
	19. Malpositions, malocclusions.
	20. Definite and undefinite article.
	21. Root canal treatment.
	22. Verbs in the future tense.
	23. Parodontitis.
	24. Verbs in the past tense.
	25. Dental emergencies.
	26. Demonstrative and possessive pronouns.
	27. Oral surgery.
	28. Oral examination.
Bibliography	1. Gogâță C. (coord.), Tomiagă A. (coord.), Coiug A., Andreica A.,
	Băgiag A., Limba română pentru practica stomatologică. Nivel B1,
	Editura Universitară Medicală, Cluj-Napoca, 2019.
	2. Gogâță C., Tomoiagă A., Băgiag A., Coiug A., Andreica A.,
	Limba română medicală. Sinteze pentru studenții Erasmus, Editura
	Universitară Medicală, Cluj-Napoca, 2018.
	3. Andreica A., Băgiag A., Coiug A., Gogâță C., Tomoiagă A., Limba
	<i>română pentru ptactica stomatologică</i> , Editura Medicală Universitară "Iuliu Hațieganu", Cluj-Napoca, 2017.
	4. Andreica A., Băgiag A., Coiug A., Gogâță C., Tomoiagă A.,
	Româna medicală pentru nivel intermediar, Editura Medicală
	Universitară "Iuliu Hațieganu", Cluj-Napoca, 2017.
	5. Gogâță C., Tomoiagă A., Coiug A., Andreica A., Băgiag A., Ursa
	A., <i>Limba română. Elemente de limbaj medical. Nivel A2</i> , Editura Medicală Universitară "Iuliu Hațieganu", Cluj-Napoca, 2018.
	6. Băgiag A., Andreica A., Tomoiagă A., Coiug A., Gogâță A., Limba
	română în context stomatologic, Editura Medicală Universitară
	"Iuliu Hațieganu", Cluj-Napoca, 2017.
	7. Bejan, D. Gramatica limbii române. Ediția III, Cluj, Ed. Echinox,
	2001.
	8. Brâncuş, G. Ionescu A., Saramandu M., Limba Română. Manual
	pentru studenții străini. Ediția IV, Ed. Universității din București,
	1996.
	9. Dorobăţ, A., Fotea, M. Limba română de bază. Iași, Ed. Institutul
	European, 1999.
	10. Kohn, D., Puls. Limba română pentru străini. Iași, Ed. Polirom,
	2009. 11 Platan E. Sanca I. Vílav D. Manual da limba namônă au limbă.
	11. Platon, E., Sonea, I., Vîlcu, D. Manual de limba română ca limbă
	străină (RLS). A1-A2. Cluj-Napoca, Casa Cărții de Știință, 2012. 12. 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 final grade:	33%	33%	34%

4TH YEAR

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj-Napoca						
postgraduate studies			U	apoca Medicine					
Facul		1			Medicine				
	in of st	<i>v</i>		Health					
	emic de	0			Medicine	<u> </u>			
	of cour			I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			2 Cons	ervative (Odontolo	gy		
Discip	line			Odonto	ology, End	lodontics	s and Ora	l Patholog	У
Cours title			RESTORATIVE ODONTOTHERAPY						
Responsible for lecture			Assoc. Prof Dr. Radu Chisnoiu						
Respo	nsible	for pract	ical	Asist. Dr. Marius Bud					
activit	ty			Asist. Dr. Carina Culic					
	•			Asist. Dr. Merfea Mihai					
				Asist. Dr. Mara Rusnac					
				Vacant sef lucrari18					
The fo	ormativ	ve catego	rv of	DS					
	scipline	0	•	~~					
Comp	Compulsory discipline		Compulsory						
	hours/week		ho	urs/semes	ter	Type		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total Credit	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
and practical activities	dental units needed for practical activities on patients.

	I
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 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 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 methods	Lecture, systematic, interactive exposure.		
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	• Interactive discussions and demonstrations.						
Practical	Exercises for instruments recognition and description.						
activity carried	 Realizing the preparations procedures for instrument sterilization. 						
out by students	 Patient examination and data record. 						
out by students	 Treatments on patients. 						
Content	1. Dental office presentation, dental unit functions.						
	2. Dental office circuit for instruments; cleaning and sterilization						
	methods for dental instruments. Working surfaces disinfection.						
	3. Patient examination in the dental office, filling the patients record.						
	4. Proper isolation achievement – rubber dam application.						
	5. Dentinal wound treatment and application of filling materials in						
	cavities: varnishes, bases, liners.						
	6. Preparation and application of filling materials in cavities. Pulp						
	capping.						
	7. Complex restorations - silver amalgam.						
	8. Cervical lesions restorations using modern materials.						
	9. Conservative preparation of cavities and application of light curing						
	composite materials.						
	10. Anterior teeth restauration using light curing composite materials.						
	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. Quintessence, 2013.						
	2. Sanda Cimpean: Ghid practic de odontologie și endodonție;						

	 Ed.UMF Cluj-Napoca, 2012. 3. Ecaterina Ionescu (coordinator): Manual pentru rezidențiat – stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021 4. Andre Ritter: Sturdevant's Art and Science of Operative Dentistry, Ed. Mosby, 2016. 			
Evaluation:	Written exam	Practical exam	Activity during the semester:	
Percent of the final grade:	70%	20%	10%	

Institu	Institution for graduate and		Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	Medicin	ne		
Depar	tment			4 Prost	hetics and	l Dental	Materials		
Discipline		Prosthe	etic Dentis	stry					
Cours	title			OCCLUSION					
Responsible for lecture		Professor Dr. Smaranda Buduru							
Respo	nsible	for pract	ical	Assist. Dr. Silvia Balhuc					
activit	y			Lecturer Dr. Simona Iacob					
				Lecturer Dr. Mirela Fluerasu					
The fo	ormativ	ve catego	ry of	DS					
the dis	the discipline								
Compulsory discipline		Compulsory							
N			hours/week		urs/semes	ter	Т. Т. Ту		Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	2	3	28	42	55	125	5	E

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	• Capacity to adequately and contextually use the speciality terminology.
competences	• 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

	dontistry						
	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	• Acquiring knowledge regarding the morphology of the masticatory						
objectives	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 methods	• Lecture, systematic and interactive display of information, conversation.				
Content	 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. 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				

	1						
	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.						
	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 Thielemann						
	phenomenon. The 6-year molar syndrome.						
	10. Functional occlusion criteria. Functional lateral guidance. Active and						
	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. 4D						
	Digital Analysis – Modjaw.						
	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						
activity carried	notebook. Impressions of both arches. Manipulate the						
out by students	articulator and learn the 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. Global occlusal analysis of a clinical case.						

Content	1. Clinical patient example	mination with occlusal	symptoms and temporo-				
	mandibular dysfunctio						
	2. Oro-facial muscle e	xaminations (masticato	ry and cervical muscles).				
	3. TMJ examination.	· · · · ·	· ·				
	4. The semi-adjustable	e articulator (SAA). Con	mponents and accessories.				
		lysis. The curves of occ	-				
	6. MI position examin						
	7. Cast mounting in th						
		anterior guidance (the	propulsion movement).				
		ondylar slope and perfor					
	analysis using SAA.						
	U	f laterotrusion guidance	es (diduction).				
		Bennett angle and perfo					
	analysis using SAA.	8	8 F				
	-	. Change of VDO in SA	AA.				
	13. Examining the CI						
	<u>0</u>		. Occlusal analysis in MI				
	and CR.		5				
Bibliography	1.Klineberg I, Eckert	S. Functional Occlusion	on in Restorative Dentistry				
	and Prosthodontics. 1th Edition. Elsevier Mosby, 2015.						
	2. Wiens J. Fundamentals of occlusion. The american college of						
	prosthodontists. 1st E	dition 2015.	_				
	 3.Gross M. The science and art of occlusion and oral rehabilitation. 1th Edition. Quintessence Publishing, 2015. 4. Duminil G, Laplanche O. L'occlusion tout simplement. Espace Id, 2015. 5. Duminil G, Orthlieb J.D. Le Bruxisme. Espace Id, 2015. 6. Orthlieb J.D. Dysfonctionnements temporomandibulaires. 						
		- Traiter. Espace Id, 20					
			versus articulator. Ed.				
	NapocaStar, Cluj-Naj						
		e	mandibular Disorders and				
		n. Elsevier Mosby, 201					
	_	-	lar Disorders. 4th Edition.				
	Blackwell Publishing 10.Robert B. Kern	, 2019. nstein. Handbook of	F Dessenth on Clinical				
	IGI Global, 2019.	iputerized Occiusar An	alysis in Dental Medicine.				
	,	nctional Aesthetic De	entistry. How to achieve				
			of a stable occlusion. 1th				
	Edition. Springer, 202						
	1 0		res in Dental Occlusion.				
	John Wiley & Sons, 2						
Evaluation:	Written exam	Practical exam	Activity during the				
			semester:				

	ent of tl l grade	-	45%		2	45%		10	%
Institu	ition fo	r gradua	ate and	Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"
postgr	aduate	studies		Cluj-Na	apoca				
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		
Quali	Qualification			Doctor	of Dental	Medicii	ne		
Depar	Department			2 Conservative Odontology					
Discip	Discipline			Pedodontics					
Cours title			PEDODONTICS						
Responsible for lecture			Lectur	er Dr. M	eda-Ror	nana Sin	nu		
Responsible for practical			Lecture	Lecturer Dr. Meda-Romana Simu					
activit	y			Assist. Drd. Irina Lupse					
				Assist. Dr. Raluca Ghiran					
The fo	The formative category of			DS					
the discipline									
Compulsory discipline		Compulsory							
	Year Sem	hours/week		s/week	ho	hours/semester Tyr			Type of
Year		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 and physiology of dento-maxillary system.
Requisities for lectures and practical activities	•	Amphitheater with projection system.Offices with dental units.

Professional competences	 Knowledge of the development of the dento-maxillary system during 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 competences	Using similar concepts in new contexts.Application of theoretical concepts in practical activity.

	• Establish interdisciplinary correlations in the studied areas.				
General objectives	• Acquiring notions of normal and pathological development of the dento-maxillary system.				
objectives					
	• Psychology and approach to the child in the dental office.				
	• Particularities of diagnosis and treatment of dental lesions in children				
	and young people.				
Specific objectives	• Acquiring knowledge about the development of the dento-maxillary 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,					
methods	Power 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 com	nlex clinical examinati	ons; Radiographies study				
activity carried			cess; Diagnosis of dental				
out by students		elopment of positive / d					
			nildren; Applying methods				
			to dentition and dentition;				
		nt according to dentitio					
Content	1. Complex clinical ex	Ŭ					
	2. Complex clinical ex						
	3. Complex clinical ex						
	4. Complex clinical ex						
	5. Complex clinical ex						
	6. Dental lesions of ter						
	7. Dental lesions of ter	* *					
	8. Dental lesions of yo	oung permanent teeth.					
	9. Dental lesions of yo	oung permanent teeth.					
	10. Complementary ex	xaminations.					
	11. Complementary ex						
		12. Anesthesia in children and young people.					
	13. Prophylaxis of tooth decay.						
	14. Develop a treatment plan.						
Bibliography		1. KOCH, G., POULSEN, S., ESPELID, I., HAUBEK, D. (Eds.). (2017). Pediatric dentistry: a clinical approach. John Wiley & Sons.					
			ANDRINA MUNTEAN,				
			edicala Universitara" Iuliu				
		5, ISBN 978-973-693-7					
	3. ARTHUR NOWAK, JOHN R. CHRISTENSEN. Pediatric						
	Dentistry.4. Infancy through Adolescence, 6e Hardcover 2018.						
			r the Child and Adolescent,				
	10e Hardcover. 2	•	r the child and redoleseent,				
			n 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	Practical exam	Activity during the				
			semester:				
Percent of the	50 %	30%	20%				
final grade:							
-	-	-					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 mas	sters			
Qualif	Qualification			Doctor	Doctor of Dental Medicine				
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Prosthe	tic Dentis	stry			
Cours	title			PROS	ГНЕТІС	DENTI	STRY		
Responsible for lecture		Lect. D)r. Andre	ea Kui					
Responsible for practical		Lect. D	Lect. Dr. Andreea Kui						
activity		Assist. Dr. Manuela Manziuc							
The formative category of		DS	DS						
the dis	the discipline								
Comp	ulsory	disciplin	e	Compu	lsory				
	a	hours/week		ho	urs/semes	ster	— 1	<i>a</i>	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	1	3	14	42	44	100	4	E

Pre-conditions (Preliminary conditions)	• Elementary knowledge of teeth morphology, dental materials, occlusion and single-tooth fixed prosthesis.
Requisities for lectures and practical activities	 Amphitheater with video projector. 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 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.
Transversal	• The use of assimilated information in new contexts.
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 objectives	• 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 					
out by students	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					
Content	instruments; presentation of the instruments used for examination.					
	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					
Dibliggramher	partial edentulism - mandibular arches.					
Bibliography	1. Wassell, R; Nohl, F; Steele, J; Walls A (Eds). Extra-Coronal					
	Restorations - Concepts and Clinical Application, 2nd Edition (BDJ					
	Clinician's Guide). 2018. 463 p.					
	2. Shilligburg T.H., Hobo S., Whitsett L.D ,,Fundamentals of fixed					

	prosthodontics" H 2012.	Fourth edition. Quint. Pu	bl. Co. Chicago-Tokyo,		
		and M.F., Fujimoto J., Fifth edition.Mosby Co:			
	-	ter dentistry - Restorative			
		nodontics. Third Edit. Ch	-		
	Elsevier; 2012.		e		
	5. Powers J, Wataha applications. Else	a J. Dental materials : fou evier: 2017.	undations and		
	6. Manfredini D, Po	oggio CE. Prosthodontic	planning in patients with ism: A systematic review.		
	J Prosthet Dent 2	017;117(5):606-	-		
	-	rg/10.1016/j.prosdent.20			
	0		Craig's restorative dental		
		enth. Craig's Restorative	e 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				
	dentistry. Part I: basic principles. J Ir Dent Assoc. 2015, 61.9. Kui A, Picos A, Picos A, Ispas A. Fixed Partial Dental Prosthesis -				
	2. Kui A, Picos A, Picos A, Ispas A. Fixed Parual Dental Prosinesis - Lecture notes. University of Medicine and Pharmacy "Iuliu				
	Hatieganu"; 2018. 2018 p.):201–8.				
	10. Strassler HE. Fixed prosthodontics provisional materials: making				
	the right selection.Compend Contin Educ Dent. 2013 Jan;34(1):22-				
	26.		1		
Evaluation:	Written exam	Practical exam	Activity during the		
			semester:		
Percent of the	· ·				
final grade:	exam grade				

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	6 Medical specialties. 4 Community Medicine
Discipline	Infectious diseases. Epidemiology
Cours title	INFECTIOUS DISEASE. EPIDEMIOLOGY
Responsible for lecture	Lecturer - vacant 3
Responsible for practical	Teaching assistant Dr. Badea Mihai
activity	Teaching assistant vacant 5 and 7.
The formative category of	DD
the discipline	

Compulsory discipline		Compulsory							
	a	hours/week		hours/week hours/semester		— 1	a	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	1	1	2	14	28	33	75	3	Е

Pre-conditions	 Microbiology, Internal Medicine, Medical Semiology,
(Preliminary conditions)	Pediatrics.
Requisities for lectures and practical activities	 Students will not be allowed at the practical works with open 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.

Professional	• The ability to adequately use the epidemiological entities to understand
competences	the causes and the impact of diseases.
	• Integration of clinical epidemiology in primary, secondary and tertiary
	prevention.
	• Continuous improvement of the duration and quality of life correlated
	with active immunization programs.
	• The ability to apply measures to prevent and control the healthcare
	associated infections with the particularities in dental practice.
	• Improving the ability to reproduce the theoretical knowledge in
	preventive medicine.
Transversal	Built up the professional development by engaging critical thinking
competences	skills and understanding through the use of the epidemiological
Pereneeb	method.
	• Integration of the epidemiological approach into the concept of preventive medicine.
General	*
	• At the end of the course the students will have the basic knowledge
objectives	and skills to apply the concepts of epidemiology in promoting health
	and disease prevention within communities and in health care services.
Specific	At the end of the course the students will be able:
objectives	• 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
	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.
	 To consider the judicious use of chemoprophylaxis in exogenous and
	endogenous infections.

• To integrate the post exposure prophylaxis in occupational exposure to infectious agents transmissible through blood and other biological
fluids.

	LECTURES		
Teaching	Lecture, interactive presentations - On site and online exposures		
methods	based on PPT presentations and clinical cases.		
Content	1. Definition of health, health determinants, the professional basis and		
	methods of public health in primordial, primary and tertiary prevention.		
	2. Epidemiology objectives and the domains of application: epidemiological		
	surveillance, investigation, analysis and evaluation.		
	3. Definition of commensal, pathogenic and opportunistic microorganisms		
	with different approaches in the preventive and therapeutic interventions.		
	4. Infectious disease classification according to the type of transmission and		
	in relation with the preventive and control approach. COVID-19 pandemic		
	and influenza – epidemiology, prevention and control in the communities		
	and health services.		
	5. Clinical epidemiology - the normal / abnormal approach, diagnosis,		
	prognosis, natural history and treatment.		
	6. Optimal primary prevention by combining the population strategy with		
	the high individual risk strategy. Secondary prevention and the justification		
	of screening programs.		
	7. Surveillance of healthcare-associated infections, the individual,		
	population and economic significance. Types of healthcare associated		
	infections, the risks and specific components in dentistry.		
	PRACTICAL ACTIVITIES		
Teaching	• Interactive presentations - On site and online exposures based on PPT		
methods	presentations and clinical cases.		
Practical	• Interactive presentations - On site and online exposures based on PPT		
activity	presentations and clinical cases.		
carried out	• On each disease it will be presented aspects related to: etiology,		
by students	pathogenesis, clinical picture, clinical forms of 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. Defining the preventive and combative antiepidemic activities. Case		
	studies.		
	2. Active and passive immunization. Principles, objectives and		
	recommendations.		
	3. The recommended vaccines in the National Immunization Schedules.		
	COVID-19 vaccination - types of vaccines, efficacy and safety, vaccination		
	strategy, adherence to vaccination.		

	4. Vaccine contraindications and adverse events following immunizations.
	5. Chemoprophylaxis - recommendations in exogenous infections and
	prevention of infective endocarditis in the dental office.
	6. Standard precautions – components, hand hygiene, the personal
	protective equipment (PPE).
	7. Transmission based precautions (additional) – airborne, droplets and
	contact precautions and protective environment isolation.
	Personal protective equipment in dentistry during SARS-CoV-2 pandemic.
	8. The attitude in case of occupational exposure to blood and other
	potentially infectious body fluids - hepatitis B, C viruses and HIV.
	9. Definition and calculation of the most important epidemiological
	indicators - incidence, prevalence and relative risk. Specific indicators in
	dentistry - DMFT.
	10. The epidemiology of viral hepatitis – prevention and control.
	11. The epidemiology of HIV infection – the trends, prevention and
	control. Ending AIDS by 2030.
	12. The dental setting, biological risks and dental instrument classification.
	Disinfection, sterilization and cleaning in the dental setting.
	13. Basic knowledge upon hazardous waste management.
	14. Case studies - healthcare associated infections in dentistry.
Bibliograph	1. R. Bonita, R. Beaglehole, T. Kjellström Basic epidemiology. 2 nd
y	edition. World Health Organization, 2012. ISBN 92 4 154707 3.
	2. Aschengrau A, Seage G. Essentials of Epidemiology in Public Health.
	3 rd Ed. Jones & Bartlett Learning. 2014. ISBN 9781284028911.
	3. Merrill R. Introduction to Epidemiology 6th Ed. Ed. Jones & Bartlett
	Learning. 2013. ISBN 9781449665487.
	4. Hebel JR, McCarter R. Study guide to Epidemiology and Biostatistics
	7th Ed. Ed. Jones & Bartlett Learning. 2012. ISBN9781449604752.
	5. Plotkin SA, Orenstein WA, Offit PA, Edwards KM. Plotkin's
	Vaccines. 7th ed., Elsevier 2018. ISBN: 978-0-323-35761-6.
	6. 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/safe-care2.pdf.
	7. European Centre for Disease Prevention and Control. ECDC Available
	at: https://www.ecdc.europa.eu/en/home.
	8. ORDIN Nr. 1101/2016 privind aprobarea Normelor de supraveghere,
	prevenire și limitare a infecțiilor asociate asistenței medicale în
	unitățile sanitare.
	9. ORDIN nr. 1761/2021 pentru aprobarea Normelor tehnice privind
	curățarea, dezinfecția și sterilizarea în unitățile sanitare publice și
	private, evaluarea eficacității procedurilor de curățenie și dezinfecție
	efectuate în cadrul acestora, procedurile recomandate pentru
	dezinfecția mâinilor în funcție de nivelul de risc, precum și metodele
	de evaluare a derulării procesului de sterilizare și controlul eficienței
	· · · · · · · · · · · · · · · · · · ·

Percent of the final grade:	34%	66%	%
Evaluation:	Written exam	Practical exam	Activity during the semester:
	activității la r sanitare non- stării de alert 11. ECDC – CO <u>19-pandemic</u> 12. WHO -	nivelul cabinetelor sto COVID și al ambulat ă. VID-19 pandemic. <u>1</u> Coronavirus di:	urile de organizare și desfășurare a omatologice, la nivelul unităților oriilor de specialitate pe perioada <u>nttps://www.ecdc.europa.eu/en/covid-</u> sease (COVID-19) pandemic. s/diseases/novel-coronavirus-2019.

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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 II	- License	and mas	sters			
Qualif	fication	l		Doctor	of Dental	l Medici	ne			
Depar	tment			1 Maxi	llo-Facial	Surgery	and Rad	iology		
Discipline			Dental Radiology							
Cours	title			RADIOLOGY – DENTAL IMAGING						
Respo	nsible f	for lectu	re	Lecturer Dr. Raluca Roman						
Respo	nsible	for pract	ical	Lecture	er Dr Ralu	ica Rom	an			
activit	t y			Assist.	prof. 51	Vacant				
The fo	ormativ	ve catego	ry of	DS						
the dis	scipline	9								
Compulsory discipline			Compulsory							
NZ	G	hours/week	ho	hours/semester		Type of				
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
4	1	2	2	28	28	19	75	3	E	

Pre-conditions (Preliminary	• Knowledge of the radiological anatomy of dental- periodontal and 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					
practical activities	the field of radiology interpretation.					

Professional competences	 The ability to use specialized terminology, properly and contextually. 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 competences	 Using assimilated notions in new contexts. The application of theoretical notions in practical activity. Personal professional development. Establishing interdisciplinary correlations in the fields studied.
General objectives	• Recognition the dental-alveolar pathology on radiological 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 objectives	 Refreshing and consolidating the knowledge regarding the dental-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	1. 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
methods	solving exercises and case studies, practical, active, independent
	implementation.
Practical	• Performing radiographic images interpretation: dental
activity carried	radiographies, panoramic radiographies, skull radiographies. Use
out by students	of CBCT imaging software with performing the necessary
	reconstructive maneuvers and interpretation of detected
	semiological changes, application of diagnostic algorithms,
~	formulation of imaging diagnoses.
Content	1. Recognition of anatomy in conventional and special dento-maxillo-
	facial examination.
	2. Radiological diagnosis of carious lesions.
	3. 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 Padiological diagna	osis of dental anomalies.				
			lomatria radiography			
		osis in orthodontics –cepha				
	0 0	osis in oral implantology -	CBC1 viewer, implant			
	planning .8. Exemplification of special imaging techniques in dentomaxillofacial					
		Ultrasound of the head and				
		ese examination in maxillo				
		osis in maxillofacial trauma				
		osis in maxillofacial cysti	c tumors – differential			
	diagnosis algorithm.					
	11. Radiological diagr	osis in maxillofacial solid	tumors – differential			
	diagnosis algorithm.					
	12. Radiological diagr	osis in salivary gland path	ology.			
	13. Radiological diagnosis in paranasal sinuses pathology.					
	14. Radiological diagnosis in temporo-mandibular joint pathology.					
Bibliography	1. Whaites E. Essentials of Dental Radiography and Radiology.					
	Churchill Livingstone, 5th ed., 2013.					
	2. White CS, Pharoah	MJ. Oral radiology. Princ	iples and interpretation.			
	Elsevier 2019.					
	3. Fildan F, Hedeşiu M., Patologie dento-maxilo-facială, Editura					
	Medicală Universitară Iuliu Hațieganu Cluj-Napoca, 2003.					
	4. Hedeșiu M. Radiologie orală. Ghid practic de tehnică, anatomie și					
	semiologie radiologică. Editura medicală, București 2021.					
Evaluation:	Written exam	Practical exam	Activity during the			
			semester:			
Percent of the	400/	500/	100/			
final grade:	40%	50%	10%			

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hatieganu"
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	Conf. dr. Bogdan Culic
activity	Sef. Lucr. Dr. Varvara Adrian Mihai
	Asist. Univ. drd. Boitor Amelia Anita
	Asist. Univ. drd. Clichici Andra Octavia Georgiana
The formative category of	DS

the dis	scipline)							
Compulsory discipline			Compu	lsory					
Year	Sem	hours/week C LP/S		ho C	urs/semes LP/S			Type of Assessment	
4	1	1	1	14	14	22	50	2	Е

Pre-conditions (Preliminary conditions)	 Notions on the clinical-technical stages of manufacturing dental prostheses. Notions of Prosthodontics- indirect restorations manufactured by digital technology.
	• Notions of technology of dental prostheses, manufactured by conventional methods.
Requisities for	Amphitheater with multi-media system for projection
lectures and	• Simulation offices and laboratories with specific equipment
practical activities	for practical activities.
	Optical impression of the prosthetic field.
	• Design techniques - individual achievement.
	Milling of restorations.

Professional competences	 The ability to use the specialized terminology properly and contextually 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 objectives	• Knowledge of CAD/CAM technology - office and laboratory.
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	1. CAD / CAM systems in Dental Medicine. Definition. Historic.					
	Generalities. Types of CAD / CAM systems. 2. In office systems. Presentation of the equipment, technological					
	variants. 3. Intraoral scanning. Types of CAD / CAM systems. Laboratory					

	avietame							
	systems.							
	4. 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).							
	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.							
	10. The thickness of the ceramic. Milling work.							
	11. Sintering / Crystallization. Types of ovens. Glazing.							
	12. Lutting of all ceramic works Zr cementation, Feldspar ceramic							
	cementation, Emax. Adhesion - tooth (types of adhesives)							
	Preparation of ceramics - Types of cement.							
	13. CAD_CAM systems for the laboratory. Applications of 3D							
	printing in dental medicine.							
	14. Milling systems - in the laboratory.							
	Surgical guides using CAD / CAM technology. Intervention							
	planning.							
	PRACTICAL ACTIVITIES							
Teaching	Practical demonstrations, interactive exercises.							
methods	There is a second strations, include the exercises.							
Practical	• Demonstrations recording the use of instrumental systems for the							
	• 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 restorat	ions from different CAD-	CAM materials.				
	13. Pigmentation and	glazing of prosthetic resto	orations.				
	14. Glazing the milled	restorations.					
Bibliography	1. Electronic course syllabus- Culic B, Gasparik C, Varvara M, Burde						
	A-2022-2023.						
	2. Fradeani M. Esth	etic Analysis. A systemat	ic Approach to				
	Prosthetic Treatm	nent Quintessence, 2004.					
	3. Chu S, Paravina	R, Devigus A, Mieleszko	A. Fundamentals of				
	Color, Shade matching and Communications in Esthetic Dentistry.						
	2nd ed Quintessence Publishing Co, Inc, 2010.						
	4. Shillingburg HTJr. Fundamentals of fixed prosthodontics, 4 rd ed.,						
	Quintessence Publishing Co Inc., 2012.						
Evaluation:	Written examPractical examActivity during the						
			semester:				
Percent of the	50%	30%	20%				
final grade:							

Institu	Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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			
Qualif	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			2 Conse	ervative C	Odontolo	gy			
Discip	line			Odonto	logy, End	lodontics	s and Ora	l Patholog	У	
Cours title			ENDODODNTICS							
Responsible for lecture			Assoc Prof 7 vacancy							
Respo	Responsible for practical		Vacant sef lucrari 18							
activit	y			Vacant sef lucrari 19						
				Asist dr. Carina Culic						
				Asist dr Merfea Mihai						
				Asist dr. Antonia Boca						
The fo	ormativ	ve catego	ry of	DS						
the dis	scipline	9								
Compulsory discipline		Compulsory								
			/week	ho	urs/semes	ter			Type of	
Year	Sem	С	LP/S	C	LP/S	LP/S SI Total Credit	Credits	Assessment		
4	2	2	3	28	56	80	150	6	E	

Pre-conditions	• Knowledge of anatomy and histology of the teeth, dental pulp,
(Preliminary	alveolar bone and apical periodontium. Knowledge of
conditions)	Anatomical pathology. Knowledge of inflammatory disease of

		the dental pulp and its treatment.
Requisities for	•	Lecture halls with projecture systems and access to Microsoft
lectures and		Teams platform.
practical	•	Dental office with specific equipments.
activities		

Professional	• The ability to use the appropriate terminology.
competences	 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. 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 objectives	• To gain knowledge of morphology, physiology and pathology of the dental pulp and periradicular tissues .
~	• To gain the ability to diagnose pulpal and periapical disease.
Specific objectives	 To acquire knowledge of morpho-physiology and inflammation of 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 methods	Lecture, oral displays, Power-Point presentation.			
Content	 Pulp necrosis and pulp gangrene. Endodontic biofilm. Subjective and objective symptomatology, diagnosis and treatment plan. Periapical disease: acute apical periodontitis. Subjective and objective information, diagnosis and treatment plan. Periapical disease: chronic apical periodontitis. Subjective and objective information, diagnosis and treatment plan. 			

	4 Diamonia in Endedontia treatment alan and ano anasia						
	4. Diagnosis in Endodontic, treatment plan and prognosis.						
	5. 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 treatment plan.						
	11. Root resorbtion: etiopathogenesis, subjective and objective						
	symptomatology, diagnosis and treatment plan.						
	12. Dental trauma: etiopathogenesis, subjective and objective						
	symptomatology, diagnosis and treatment plan.						
	13. Endodontic surgery: indications, contraindications, instruments,						
	techniques.						
	14. Coronal restoration of endodontically treated teeth.						
	PRACTICAL ACTIVITIES						
Teaching	Interactive discussions about endodontic topics. Diagnosis and						
methods	treatment plan in pulpal and periapical disease. Discussions about						
	root canal instrumentation and obturation techniques, accidents						
	and complications that may occur.						
Practical	Diagnose pulpal and periapical disease based on information						
activity carried	gathered.						
out by students	• during subjective and objective examination.						
	Perform endodontic treatments on pacients.						
Content	1. Consultation, X-ray examination, diagnosis and treatment plan.						
	2. Anesthesia, access cavity, preendodontic restoration.						
	3. Root canal preparation and irrigation. Intracanal medication						
	4. Root canal obturation using cold lateral condensation technique.						
	5. Coronadicular restoration of endodontically treated teeth.						
	6. Consultation, X-ray examination, dignosis and treatment plan for						
	acute apical periodontitis.						
	7. Emergency treatment for acute apical periodontitis (endodontic						
	drainage).						
	8. Preendodontic restoration.						
	9. Mechanized root canal instrumentation using 2 Shape system. Root						
	canal irrigation. Intracanal medication with calcium hydroxide.						
	10. Removal of root canal dressing. Root canal obturation using thermo-						
	mechanical condensation technique.						
	11. Coronadicular restoration of endodontically treated teeth using fiber						
	posts. 12. Treatment plan for internal and external resorptions.						

	13. Treatment plan for	r traumatic injuries.						
	14. Assessment of end	14. Assessment of endodontic treatment.						
Bibliography	1. Sanda Cimpean -	-Ghid practic de Odontolo	ogie si Endodontie,					
		Universitara "Iuliu Hatie	ganu" Cluj-Napoca,					
	2012. 2. Stephen Cohen, H	Kenneth M.Hargreaves – I	Pathways of the Puln					
	editura Mosby El	e	autways of the 1 up,					
	3. Torabinejad M., I	3. Torabinejad M., Fouard A.F,. Shabahang S Endodontics						
	Principles and Practice., sixth edition, editura Elsevier, 2020.							
	4. Stephane Simon,	4. Stephane Simon, Pierre Machtou, Wilhem-Joseph Pertot –						
	Endodontie, Edit	Endodontie, Editions CdP, 2020.						
Evaluation:	Written exam	Written exam Practical exam Activity during the						
	semester:							
Percent of the	60 %	60 % 30 % 10 %						
final grade:								

Institu	Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"				
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			1 Maxi	llo-Facial	Surgery	and Rad	iology	
Discip	line			Oral and Cranio-MaxilloFacial Surgery					
Cours	title			ORAL AND MAXILLO-FACIAL SURGERY					
Responsible for lecture			Prof. dr. Rotar Horațiu						
Responsible for practical			Assist.	Assist. Ostas Daniel					
activity									
The fo	ormativ	ve catego	ry of	DS	DS				
the dis	scipline	9							
Compulsory discipline		Compulsory							
N	G	hours/week		ho	urs/semes	ter	T 1	~	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	2	3	28	42	55	125	5	E

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.
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Requisities for lectures and	 Amphitheater with projection system (projector). Dental offices with dental chairs, salons, intervention rooms.
practical activities	,,, _,

-	
Professional	• Acquire notions of theory and practice specific exam for the specialty.
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	• The course offers students of 4th year Dentistry of the Faculty of
objectives	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	• Learning the fundamentals of oral surgery, focusing on: the principles
objectives	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	Description and with the analysis of the large to the			
	• Practical work with the practical application of the knowledge			
activity carried	acquired in the courses; analysis of medical imaging photographs;			
out by students	interpret laboratory tests; discuss the perioperative attitude for			
	patients with associated diseases proposed for oromaxillofacial			
0 4 4	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.			

Percent of the final grade:	40%	50%	10%		
			semester:		
Evaluation:	Written exam	Practical exam	Activity during the		
	Wiley-Blackwell; 20				
	color atlas of traumatic injuries to the teeth. Fifth edition. Oxford:				
	Andreasen JO, Andreasen FM, Andersson L, editors. Textbook and				
	• Nistor AM. Manual de Chirurgie Orala, Anatomie, Patologie si Tehnici Chirurgicale –Ed. <u>MedicalaCallisto;</u> 2017.				
	0.	. Seventhedition. St. Louis: l			
		E, Tucker MR, editors. Co			
		on. Boca Raton: CRC Press;			
	,	atas AN. An introduction to			
	Press; 2015.	<u>,</u>			
	c	entistry. Tenth edition. Oxfo	•		
		on TF, Pickard HM. Pickard			
	-	r les ECNi. Elsevier Health S iskos – Oral surgery. Spring			
		abelle, et al. Chirurgie			
	Internat. Espace Id 20				
Bibliography	*	Fricain. Chirurgie orale – 2e	e édition – Référentiel		
	odontogenic maxillary		1		
	-	ication plastic surgery. Case			
	14. Establish the diagnosis and surgical therapeutic indications in the case of maxillary odontogenic sinusitis. Demonstration and participation				
	Case presentation: maxillary cyst development or inflammation.				
		Demonstration and participa	• •		
	13. Establish the thera	apeutic indications for surger	ry in the case of		

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 title	PROSTHETIC DENTISTRY
Responsible for lecture	Lect. Dr. Andreea Kui
Responsible for practical	Lect. Dr. Andreea Kui
activity	Lect. Dr. Ana Ispas
	Assist. Dr. Corina Tişler
	Assist. Dr. Manuela Manziuc
The formative category of	DS

the discipline									
Compulsory discipline		Compu	lsory						
Year	Sem	hours C	/week LP/S	Hours/semesterCLP/SSI			Total	Credits	Type of Assessment
4	2	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.	
and practical activities	• Dental offices with dental units and all the specific	
	equipment and materials for prosthodontic activity.	

Professional	• A hiliter to a degradate use the analisity terminal and
	• Ability to adequately use the specialty terminology.
competences	•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.
Transversal	• The use of assimilated information in new contexts.
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

	 Klineberg I, Eckert S, Zarh G. Functional Occlusion in Restorative Dentistry and Prosthodontics. Elsevier Inc; 2016. Erdemir U. Esthetic and Functional Management of Diastema: A Multidisciplinary Approach. Yildiz E, editor. Springer; 2015. 			
Evaluation:	Written Exam	Practical Exam	Activity during the semester:	
Percent of the final grade:	45%	55%	50% out of practical exam grade	

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental Medicine					
Doma	in of st	udy		Health	Health				
Acade	emic de	gree		Dental Medicine in English					
Level	of cour	se		I and II- License and masters					
Quali	fication	l		Doctor of Dental Medicine					
Depar	tment			1 Maxillo-Facial Surgery and Radiology					
Discip	Discipline			Facial and Neck Surgery and Oro-Rhino-Laryngology					
Cours title			OTO-RHINO-LARINGOLOGY						
Responsible for lecture			Prof Dr. Albu Silviu MD PhD						
Responsible for practical			Assistant Dr Gocea Anamaria MD,PhD						
activity									
The formative category of			DD						
the dis	the discipline								
Compulsory discipline			Compulsory						
	Year Sem	hours/week		hours/semester			m 1	a II	Type of
Year		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 conditions)	• Basic knowledge regarding the usage of specific instruments and 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
practical	of lectures with the mobile phone or any other deviced is
activities	forbbiden;
	• 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.
٠	Students will need standard surgical department equipment.

Professional	• Ability of appropiately using specialty terms.
competences	• Familiarisation with theoretical and practical aspects of ENT
	examination.
	• Learning ENT pathology.
	• Applying the learnt theoretical principles and techniques in the practical
	activity.
Transversal	• Learning to correlate between ENT pathology and other medical
competences	specialites.
	• Practically applying the aquired theoretical knowledge.
	• Establishing interdisciplinary correlations.
	• Aquiring patient-communication skills.
	• Raising interest into clinical research.
General	• The lectures aim to provide 4th year students general knowledge of
objectives	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	• Aquiring skills necesary for applying ENT treatment to patients with
objectives	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	Power-point presentations, interactive tuition.		
methods			
Content	1. Clinical anatomy notions- nasal pyramid and paranasal sinuses.		
	Rhinological physiology and physiopathology notions. Rhinological		
	syndromes: obstructive, secretory, senzitive, senzorial and vascular.		
	2. 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.		

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 natomy. Clinical aspects of traheobronchial and oesphageal pathology. PRACTICAL ACTIVITIES 7 7 Case presentations, patient examination, interactive participation in treatment planning and surgical interventions. Programmed interactive learning. 7 Case presentations of rhinology. Paraclinical tests in rhinology. Anterior and posterior rhinoscopy. Nasal endoscopy. Palpation of paranasal sinuses. 2. Clinical examination of the larynx. Para-clinical tests in pharyngology. Oral cavity examination and bucopharyngoscopy. 4. Clinical case presentation of the larynx. Para-clinical tests in pharyngology. 5. Clinical case presentation		Discourse it is an it is a standard of the second standard AIDS in DNT					
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14. Salivary glands anatomy and pathology. PRACTICAL ACTIVITIES Teaching methods • Power-point presentations, interactive tuition, clinical activity held in the ENT department. Practical activity carried out by students • Case presentations, patient examination, interactive participation in treatment planning and surgical interventions. Programmed interactive 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							
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11. Salivary glands examination, interpretation of clinical and							
		paraclinical findings.					
12. Case presentations with salivary glands pathology.		12. Case presentations with salivary glands pathology.					
13. Quiz from the entire material.							
14. Exam simulation. Frequently asked questions.		14. Exam simulation. Frequently asked questions.					

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Bibliography		GOLOGIE SI CHIRU					
		-	oleanu C. în "Tratat de				
	E ,	, 1	Constantin Ciuce, vol. 1,				
	Editura Academiei	-					
		SI IGIENA VOCII. M	-				
		-	ARILE RESPIRATORII				
		leanu C coordonator.	Editura Academiei				
	Romane, 2016.						
		NUAL OF MEDICINE					
		-	AND NECK SURGERY.				
	-	-Sprekelsen M., Bonko	owsky V., Bradley P.,				
	Iurato S. Springer	U					
			by Paul W. Flint, MD,				
	Bruce H. Haughey	, MD, FACS, Valerie	J. Lund, CBE, MS, FRCS,				
	FRCSEd, K. Thon	nas Robbins, MD, FAC	CS, J. Regan Thomas, MD,				
	FACS, Marci M. I	Lesperance, MD and H	oward W. Francis, Editura				
	Elsevier, 2021.						
	5. Sinonasal Complic	cations of Dental Disea	ase and Treatment by				
	Giovanni Felisati,	Matteo Chiapasco. Ed	itura Thieme 2015.				
		NECK SURGERY: E					
	PROCEDURES. Theissing J., Rettinger G., Werner J. Editura						
	Thieme Verlag, 20)11.					
	7. Functional and Sel	lective Neck Dissection	n by Javier Gavilán,				
		Laura Rodrigáñez, and	l Jesús Herranz. Editura				
	Thieme 2020.						
	8. Head and Neck Ca	ancer: Management and	d Reconstruction, 2nd				
	Edition by Eric M.	. Genden. 2019.					
		laryngology by Roland	d, McRae, McCombe.				
	Editura Thieme 20)19.					
	10. Rhinology and Skull Base Surgery: From the Lab to the Operating						
			Christos Georgalas, Wytske				
	J. Fokkens. Editura						
Evaluation:	Written exam	Practical exam	Activity during the				
	semester:						
Percent of the	50%	50%	0%				
final grade:							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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			ENDOCRINOLOGY						
Responsible for lecture			Prof. D	Dr. Cristi	na Gher	van			
Responsible for practical		Vacan	Vacancy position Assist. Prof. pos. 3						
activit	t y								
The fo	The formative category of		DD						
the dis	scipline	<u>e</u>							
Comp	Compulsory discipline		Compu	lsory					
* 7	G	hours	hours/week		urs/semes	ster	H 1	a ii	Type of
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
4	2	1	1	14	14	22	50	2	E

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.

1	
Professional competences	• Acquisition of theoretical notions and practical skills about the diagnosis, 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	• The course offers to the students of the fourth year of the Dental Faculty
objectives	the basic notions of endocrinology, the ability to establish the diagnosis
Ŭ	of an endocrine disorder and to evaluate the impact of glandular
	dysfunction upon oral and dento-alveolar pathology.
Specific	• Theoretic knowledge of endocrine pathology.
objectives	 Abilities concerning the anamnesis and clinical exam in endocrine
objecties	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					
	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;					
activity carried	Study on hormonal dosages, clinical imaging investigations,					
out by students	exemplification of 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					
	and follow-up. Interactions with oral pathology.					
	7. Parathyroid glands pathology and osteoporosis - elements of					
	anamnesis and clinical exam.					
	8. Elements of hormonal and imaging diagnosis. Therapeutic solutions					
	and follow-up. Interactions with oral pathology.					
	9. Adrenal glands pathology - elements of anamnesis and clinical exam.					
	10. Elements of hormonal and imaging diagnosis. Therapeutic solutions					
	and follow-up. Interactions with oral pathology.					
	11. Ovarian and testicular failure - elements of anamnesis and clinical					
	exam.					

Evaluation: Percent of the	Written examPractical examActivity during the semester:70 %20 %10 %						
Bibliography	ENDOCRINOLO Hațieganu" Cluj- 2. Endocrinologia O	clinical cases evaluati ,,HAND-OUT FOR OGY" Editura Mec Napoca, 2002 (Bibliot Clinică în Medicina D	on and discussions. ENGLISH STUDENTS - licală Universitară "Iuliu				
		12. Elements of hormonal and imaging diagnosis. Therapeutic solutions and follow-up. Interactions with oral pathology.					

	Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"				
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			10 Neu	roscience	S			
Discip	line			Neurol	ogy and p	ediatric	neurology	y. Psychiat	ry and
				pediatr	ic psychia	ıtry			
Cours	title			NEUROLOGY. PSYCHIATRY					
Respo	nsible	for lectu	re	Lecturer Dr. Stan Adina Dora					
				Assist.	Assist. Crecan-Suciu Bianca				
Respo	nsible	for pract	ical	Lecturer Dr. Stan Adina Dora					
activit	y			Lecturer Dr. Căpățină Octavia, Assits. Paval Denis,					
				Assist. Lavinia Ionescu					
The fo	ormativ	ve catego	ry of	DD					
the dis	scipline	9							
Compulsory discipline		Compulsory							
* 7			/week	ho	urs/semes	ter			Type of
Year	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, morphopathology, physiology and pathophysiology			
(Preliminary		of the central and peripheral nervous system, notions of			
conditions)		clinical 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 course.
	• Punctuality.
	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.
1	

Professional	• To omitically analyze and he able to refer nationts with neurological
competences	• To critically analyze and be able to refer patients with neurological 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.
	• To be able to use sources of information on drugs effectively.
	• To be able to use the terminology appropriately and in context.

	1
	• 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
Transversal	medical/related specialties.
competences	• Skills of using the resources provided by specialized services/community for people with mental disorders.
competences	 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
	for the management of clinical diagnosis and the contingency plan for the main mental disorders.
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
Teaching	• Interactive exposition of the material, using power point
methods	presentations, 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
methods	notions already presented in the course.
Practical	• Applying the theoretical knowledge in practice.
activity carried	
out by students	
Content	1. Presentation of the activities of the department:
	• visit.
	• active participation in patient examination.
	• acquiring the interaction methodology with the neurological patient.
	2. Specific measures for the recognition and assessment of urgencies

	in: Cerebral vascular	pathology.						
		for the recognition and asse	essment of urgencies in:					
	Parkinson's disease.	_	_					
	-	or the recognition and asse	essment of urgencies in:					
	Multiple sclerosis.							
	5. Specific measures for the recognition and assessment of urgencies in: Epilepsy.							
	6. Specific measures f Headache syndromes.	or the recognition and asse	essment of urgencies in:					
	7. Specific measures f	or the recognition and asse	essment of urgencies in:					
	Coma.							
	-	s related to confidentiality	and conditions for					
	examining the patient.							
	9. Clinical case of sch		<u> </u>					
		epression, suicidal immine	nce, hypomania, mania.					
		xiety, eating disorders.						
	12. Clnical case of per							
		coholism, abuse of psychoa						
Bibliography	14. Clinical case of mental retardation, dementia, psychomotor agitation.1. Neurology Course (electronic form).							
Dibilography	 Neurology Course (electronic form). Geraint Fuller: Neurological Examination Made Easy, 5th edition. 							
	2. Gerant Fuller. Neurological Examination Made Easy, 5th edition. ISBN-13: 978-0702051777 ISBN-10: 0702051772; Ed. Elsevier.							
	2013.		,					
	3. Allan Ropper, N	Iartin Samuels, Joshua	Klein (Tufts University					
		ne, Boston, MA, Adams a						
		N: 9780071794794, McC	braw Hill Professional,					
	2014.	~						
		Comprehensive Medical I						
		USMLE II, Sara Miral	i, Ayesh Seneviratne:					
	Psychiatry chapte	er. cal psychiatry for medical s	students, Ioana Michutia					
		Cluj-Napoca. Editura medic						
	Hațieganu, 2017.							
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 Hațieganu"
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					
Discip	oline			Ophtal	nology				
Cours	s title			OPHT	ALMOL	OGY			
Respo	nsible	for lectu	re	Vacan	cy positio	n Prof.U	U niv. pos	. 10	
Respo	Responsible for practical				cy positio	n Assist	. Prof. po	os. 3	
activit	t y								
The fo	ormativ	ve catego	ry of	DD					
the discipline									
Comp	ulsory	disciplin	e	Compulsory					
hours/week			ho	urs/semes	ter	T 1	a 11	Type of	
Year	Year Sem C LP/S		C	LP/S	SI	Total	Credits	Assessment	
4	2	1	1	14	14	22	50	2	Е

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
practical activities	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.
	• 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	• The ability to perform in a correct manner the anamnesis and the						
competences	clinical 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 ophthalmology, the ability to establish the diagnosis of an ocular disorder and to evaluate the impact of eye pathology upon oral and dento-alveolar pathology.
Specific objectives	 Theoretic knowledge of ocular pathology. Abilities concerning the anamnesis and clinical exam in patients with ocular pathology. Demanding and interpreting oculae examinations in a patient. Understanding the treatment of ocular diseases, the follow-up and the impact of ocular disease upon oral and dental pathology.

	LECTURES							
Teaching	Lectures, discussions, oral presentations, video presentation,							
methods	Power Point.							
Content	1. Visual function.							
	2. Ocular refraction.							
	3. Pathology of the Binocular vision and ocular motility system.							
	4. Pathology of the external structures (orbit, eyelids, lacrimal							
	system, conjunctiva).							
	5. Pathology of the cornea.							
	6. Pathology of the sclera.							
	7. Pathology of the uveea.							
	8. Pathology of the lens.							
	9. Hyperintraocular pressure and glaucoma.							
	10. Pathology of the retina.							
	11. Pathology of the optic nerv.							
	12. Pathology of the pupil.							
	13. Traumathology of the eye.							
	14. Red eye syndrome.							
	PRACTICAL ACTIVITIES							
Teaching	• Practical Demonstrations, Oral presentations adn discussions,							
methods	video presentation. Clinical cases presentations.							
Practical	• Practical application of knowledge gained during the courses;							
activity carried	Study onocular examinations, clinical imaging investigations,							
out by students	exemplification of pathology with clinical cases.							
Content	1. Ocular anatomy. Ocular semiology: particular aspects of anamnesis							
	in ophthalmology.							
	2. Particular aspects of clinical exam in ophthalmology.							
	3. Visual acuity examination.							
	4. Visual field examination.							
	5. Chromatic sense examination.							
	6. Slit examination. Case presentation.							

	7.Binocular vision an	d motility examination.	Case presentation.					
	8. Ocular refraction exam.							
	9. Intraocular pressure examination. Glaucoma case presentation.							
	Establishing the diagnosis and follow-up of the patient.							
	10. Cataract. Semiolo	gy.Case presentation.						
	11. Fundus examinati	ion. Ophthalmoscopy.						
	12. The exam of the	e orbit, eyelids, lacrin	nal system. Verifying the					
	permeability of the lacrimal drainage system.							
	13. Students case presentations.							
	14. Synthesis session,	, clinical cases evaluation	on and discussions.					
Bibliography	1. Cristina Nicula. Ophthalmology, Ed. Med. Univ."Iuliu							
	Hațieganu" Cluj-Napoca, 2014 (Biblioteca UMF).							
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 Hațieganu"						
postgraduate studies				Cluj-Napoca					
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	ı		Doctor	of Dental	Medicin	ne		
Depar	tment			9 Moth	er and chi	ild			
Discip	line			Pediatr	ics				
Cours title			PEDIA	TRICS					
Respo	nsible	for lectu	re	Lect.Dr. Simona Cainap					
Respo	nsible	for pract	ical	Lect. Dr. Slävescu Kinga					
activit	y			Asist. Dr. Alina Grama					
				Asist. Dr. Bota Mădalina					
				Asist. Dr. Simionescu Bianca					
				Asist. Dr. Militaru Mihai					
		ve catego	ry of	DD					
the dis	scipline	9							
Compulsory discipline		Compulsory							
NZ	Year Sem	hours	/week	hours/semester		ter	T 1	a	Type of
Year		С	LP/S	C	LP/S	SI	Total Cree	Credits	Assessment
4	2	1	2	14	28	8	50	2	E

Pre-conditions	•	Anatomy,	Physiology,	Pathophysiology,	Morphopathology,		
(Preliminary		Medical Semiology, Clinical Pharmacology.					
conditions)	•	• Performing the anamnesis; communication with the patient and					
		identificatio	on of individu	al needs; identification	ation 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
lectures and	phones open. Telephone conversations during the course will not
practical	be tolerated, nor will students leave the classroom in order to take
activities	personal phone 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 competences	 To understand and assimilate knowledge related to the growth and 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 identify and participate in the treatment of infectious complications in patients with cardiovascular malformations.
	 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

	amnothation11
	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 critically evaluate a colleague's clinical presentation (differentiates 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
Specific	specific to the pediatric patient.At the end of the course students will be able:
objectives	
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.
	• To acquire knowledge related to the particularities of the pediatric patient and the principles of care.

	LECTURES						
Teaching methods	Teaching courses, discussions, debates.						
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 - r	nalabsorption, chronic l	nepatitis.					
	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.							
	PRACTIO	PRACTICAL ACTIVITIES						
Teaching	Bed-side teaching, clinical case presentation.							
methods	 Discussions. 							
	• Debates.							
	 PPT presentation 							
Practical	Anamnesis, histo	ory, case presentations.						
activity carried								
out by students								
Content		physical examination in	n 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 m							
			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 Hațieganu"
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 title			MEDI	MEDICAL PRACTICE					
Respo	nsible 1	for lectu	re	Prof. Smaranda Buduru					
Comp	Compulsory discipline			Compu	Compulsory				
••	hours/week		hours/semester		- 1	<i>a</i> . "	Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
4	2	0	40	0	160	0	160	2	С

Professional	• Medical practice activities in dental medicine units.
competences	
Transversal	• Ability to work in a team during therapeutic procedures.
competences	
General	• Acquiring the knowledge of the workflow in dental medicine units.
objectives	
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
	• Diagnosis, treatment plans after chinical 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	1. Okeson, J. Management of Temporomandibular Disorders and
Dibilography	Occlusion. 8 th Edition. Mosby, 2019.
	 Buduru S. Analiza ocluziei dentare. Ed Napoca Star, 2018
	3. Wright E. Manual of Temporo-Mandibular Disorders. 4th
	Edition, Blackwell Publishing, 2019.
	4. Okeson JP. Bell's Oral and Facial Pain. Seventh Edition.
	Quintessence Publishing; 2014.
	5. 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.
	6. Klineberg I, Eckert S. Functional Occlusion in Restorative
	Dentistry and Prosthodontics 1st Edition. Elsevier. Mosby, 2015.
	7. Buduru S, Almasan O. Notiuni practice de ocluzologie. Napoca
	Star, Cluj- Napoca, 2009.
	8. Fradeani M. Esthetic Rehabilitation in Fixed Prosthodontics.
	Volume 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	itution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic 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 Radi	ology	
Discip	line			Maxillo	oFacial Su	argery ar	ıd Implan	tology	
Cours title			ORAL AND MAXILLO-FACIAL SURGERY						
Responsible for lecture			Vacancy position Assoc Prof. pos.14						
Responsible for practical			Lecturer Dr. Armencea Gabriel						
activity			Vacanc	Vacancy position Assist Prof. pos. 43					
				Vacancy position Assist Prof. pos. 46					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline			Compulsory						
NZ	G	hours/week	week	ho	urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	3	3	42	42	66	150	6	Е
-	-	C 3	LP/S	C 42	LP/S 42	SI 66			Assessn

Pre-conditions (Preliminary conditions)	 Anatomy of the dento-maxillary apparatus. Physiology of the dento-maxillary apparatus. Pathophysiology. Anesthesia in dental medicine. 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 oromaxillofacial 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
activities	rooms.

Professional competences	 Acquirement of theoretical and practical notions for examinations, specific to the specialty. Acquirement of knowledge regarding the surgical diseases of the dentomaxillary apparatus, with emphasis on the traumatic, infectious and tumor pathology. 	
Transversal competences	Transversal • The use of assimilated notions in new contexts.	

	• 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
objectives	
	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	• The acquirement of knowledge regarding surgical diseases of the dento-
objectives	maxillary 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.
	C C
	• 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 methods	• Lecture, interactive and systematic exposure, presentation of patients from relevant cases. Oral presentations and Power-Point 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. 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.					
	PRACTICAL ACTIVITIES					
Toophing						
Teaching methods	• Power-point presentation, interactive teaching.					
Practical	. Intersective ano anomene of learning. Clinical stages with the					
	• Interactive programmed learning. Clinical stages with the					
activity carried	presentation of the patients in relevant cases, model study,					
out by students	radiography study, patient 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 oro-					
	facial 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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	Chirurgicale Oro-Maxilo-Faciale, Ed. Didactică și Pedagogică,					
	București, 2012.					
	3. Haggerty CJ, Laughlin RM. Atlas of Operative Oral and					
	Maxillofacial Surgery, DOI:10.1002/9781118993729, John Wiley					
	& Sons, Inc. 2015.					
	4. <u>Fernandes</u> 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.					
	 Laskaris G. Color Atlas of Oral Diseases: Diagnosis and Treatment. 					
	ed. 4th Edition. Stuttgart: Thieme; doi:10.1055/b-005-148886,					
	2017.					
	7. Ferneini EM, Goupil MT. Office-Based Maxillofacial Surgical Procedures A step by step approach Springer 2019					
	Procedures. A step-by-step approach, Springer, 2019.8. Bell RB, Andersen PA, Fernandes R. Oral, Head and Neck					
	Oncology and Reconstructive Surgery, Elsevier, 2019.					
	9. Sawatari Y. Surgical Management of Maxillofacial Fractures.					
	Quintessence, 2019.					
	10. <u>Elo J, Herford A</u> . Oral Surgery for Dental Students: A Quick					
	Reference Guide, ed. 1st Edition. Thieme; doi:10.1055/b-006-					
	161151, 2019.					
	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					
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	<u>s2.0-C20160044133</u> .					
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	2018 la care avem acces institutional in Clinical Key:					
	https://www.clinicalkey.com/#!/browse/book/3-s2.0-					
L						

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Evaluation:	Written ExamPractical ExamActivity during the semester:				
Percent of the final grade:	33,3%	33,3%	33,4%		

Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hatieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	Discipline			Periodo	ontology				
Cours title			PERIODONTOLOGY						
Responsible for lecture		Lecturer Dr. Andreea Ciurea							
Responsible for practical			Lecturer Dr. Andreea Ciurea						
activit	activity			Lecturer Dr. Stefan Adrian Petrutiu					
				Assistant Professor Dr. Cosmin Vasile Cioban					
				Assistant Professor Dr. Daniela Condor					
				Assistant Professor Dr. Cristina Iulia Micu					
		ve catego	ry of	DS					
-	the discipline								
Compulsory discipline		Compulsory							
NZ G		a hours/v		ho	urs/semes	ter	T (1		Type of
Year	Sem	C	LP/S	С	LP/S	SI	Total	Credits	Assessment
5	1	2	3	28	42	48	125	5	E

Pre-conditions	 Histology, immunology, physio-pathology, microbiology, 		
(Preliminary	internal 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		
practical activities	activity		
	• 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 				
Transversal	 Ability to communicate with the periodontal patient regarding the				
competences	• Ability to communicate with the periodontal patient regarding the 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 				
	 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 objectives	 Provide the theoretical knowledge about periodontal entities 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 				
	• 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.				
Taashina	PRACTICAL ACTIVITIES Power point presentations interactive presentation providing				
Teaching methods	rower point presentations, interactive presentation, providing				
methous	written protocols. Providing case definitions. Filmed demonstrations.				
Practical	 Preclinical exercises of evaluation of clinical parameters on 				
activity carried	 Preclimical exercises of evaluation of chinical parameters on periodontal learning models. 				
out by students	 Evaluation of clinical cases. 				
out by students	 Anamnestic and intervention exercising on clinical cases. 				
	 Exercising the clinical procedure. 				
Content	1. Evaluation of: probing pocket depth, attachment level, gingival				
Content	recession, furcation on periodontal models (preclinical encounter).				
L	recession, furcation on periodontal models (preeninear encounter).				

Percent of the final grade:	50%	40%	10%		
L'valuativii.			semester:		
Evaluation:	Written Exam	Practical Exam	Activity during the		
		sgaard, 2021(ISBN: 978			
			V, Sanz M(Eds). Lindhe's tistry, 7th Edition, Wiley-		
	2018.	undh T. Ciannahila WA	I Song M(Eds) I in dials		
		Clinical Periodontology	, 13th Edition, Elsevier,		
	4. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman				
		anu 2011 (ISBN 978-9			
	3. Roman A., Soance	ă A. Clinical manual of J	periodontology, Ed Med		
		ganu, 2019 (ISBN 978-97			
		A. Concepts in Periodo			
Bionography		019 (ISBN 978-973-693			
Bibliography	encounter). 1. Roman A et al. Parodontologie 1. Noțiuni de bază. Ed Med Univ				
	14. Subgingival calculus diagnostic. Subgingival scaling (clinical				
	encounter).				
	13. Supragingival calculus diagnostic. Supragingival scaling (clinical				
	individualised, complex treatment plan (clinical encounter).				
	12. Periodontitis patient examination. Establishment of the				
	-	11. Periodontitis patient examination. Establishment of the individualised, complex treatment plan (clinical encounter).			
		atment plan determination tient examination Estable			
	Ū.		determination; diagnostic		
			ation (clinical encounter).		
	Ū.		determination; diagnostic		
	therapy stage. (c	clinical encounter).			
		ntification; Risk factors 1	nodulation in the initial		
	encounter).	diagnostic and treatment	t plan (enniear		
		diagnostic and treatmen	-		
	chart (clinical er 7. Periodontitis: id	entification of the etiolog	nical risk factors		
	00	on, furcation. Data record	ding in the observation		
		ion of: pocket probing de			
	chart (clinical encounter).				
		on, furcation. Data record	ding in the observation		
	e e e e e e e e e e e e e e e e e e e	ion of: pocket probing de			
		ata in the observation ch	6 6		
		meters: case study (prec	gingival inflammation.		
	-	diagnostic based upon e			
	encounter).				
		valuation of the alveolar			

Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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 II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Oral Rehabilitation					
Cours	title			ORAL REHABILITATION					
Responsible for lecture			Prof. dr. Aranka Ilea						
Responsible for practical			Assist. Dr. Pop Andreea						
activit	y			Assist.	Dr. Feuro	lean Cla	udia		
				Assist.4	Assist.45 - vacancy				
The fo	ormativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline			Compulsory						
* 7	Sem	hours/week	/week	ho	urs/semes	ter			Type of
Year		Sem	С	LP/S	C	LP/S	SI	Total	Credits
5	9	2	3.5	28	49	48	125	5	E

Pre-conditions	Knowledge of Odontology, Endodontics, Prosthetics,
(Preliminary	Periodontology, Maxillofacial Surgery, Implantology,
conditions)	Orthodontics, 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.

Professional	• Acquisition of knowledge related to complex oral rehabilitation of
	- Requisition of knowledge felated to complex of a felation 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
	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 competences	 Integration of the concepts assimilated in Ododntology, Endodontics, 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 objectives Specific objectives	 Acquiring knowledge about complex oral rehabilitation of the patients. Particularities of dental treatment in patients with comorbidities. 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 methods	Lecture, systematic, interactive exposureOral 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				
Taaahing					
Teaching	Power-point interactive teaching presentations. Practical				
methods Dragtical	demonstration.				
Practical	• Exooral, endooral and general clinical examination.				
activity carried	Staging of dental treatment in the context of general condition.Carrying out the learned techniques.				
out by students					
Content	1. Examination of patients with general disorders and dental conditions.				
	Anamnesis, local and general objective exam.				
	2. Preparation of the observation sheet. Establishing the diagnosis of				
	oro-dental affections and diagnosis of general condition.				
	3. Conducting the treatment plan in the context of the general illness.				
	The medical prescription in the dental office. 4. Circuit of medical documents in the dental office.				
	5. Restoration of the oral cavity structures and functions in adult patients addressed to a dental clinic.Patients with cardiovascular disease.				
	6. Performing dental treatments, scaling, extractions in patients with				
	diabetes mellitus.				
	7. Performing dental treatments, extractions, suppuration incisions in				
	patients with obesity and metabolic syndrome.				
	8. Dental treatment, extractions, suppurations incision in patients with				
	neurological disorders – strokes.				
	9. Perform dental treatments, scaling, extractions, suppuration incisions				
	in patients with neurological disorders - multiple sclerosis, essential and				
	secondary trigeminal neuralgia.				
	10. Performing dental treatments, extractions, suppurations incision in				
	patients with neurological - epilepsy disorders.				
	11. Performing dental treatments, extractions, suppuration incision in				
	patients with liver disorders.				
	12. Performing dental treatments, scaling, extraction, suppuration				
	incisions in patients with cirrhosis.				
	13. The follow-up of oral cavity pathology in patients with				
	comorbidities in the dental office.				
	14. Practical Exam - case report.				
Bibliography	1. Scully, s Medical problems in dentistry - C. Scully, Churchill				
	Livingstone, 7th edition, 2014, ISBN: 9780702054013, eBook				
	ISBN: 9780702065583, eBook ISBN: 9780702059636.				
	2. Ghid de abordare a pacientului cu paralizie facială în cabinetul				
	stomatologic - Ilea Aranka. Editura Școala Ardeleană; București,				
	Editura Eikon; Cluj-Napoca, 2015, ISBN 978-606-8770-13-0;				
	ISBN 978-606-711-323-5.				
	3. Reabilitare Orală – G. Băciuț, M. Băciuț, R.S. Câmpian, C. Balog,				
	D. Pop – Ed Medicală Universitară "Iuliu Hațieganu", Cluj Napoca,				
	2002, ISBN 973-8019-90-7.				
	4. Implicațiile multidisciplinare în durerea orală și cranio-facială - A.				

	Rotaru, C. Sarbu, R.S. Câmpian, I. Munteanu, H. Rotaru – ED. Clusium, Cluj Napoca, 2001, ISBN 973-555-299-X.			
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 Hatieganu"							
postgraduate studies				Cluj-Napoca						
Facult				Dental	Medicine					
Doma	in of st	udy		Health						
Acade	emic 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			Oral H	ealth					
Cours title			DENTAL OFFICE MANAGEMENT							
Responsible for lecture			Prof. Dr. Lucaciu Ondine							
Responsible for practical			Associa	ate Prof. I	Dr. V.10					
activit	y			Lectur	er Dr. Ale	exandru	Mester			
				As. Dr.	As. Dr. Ovidiu Aghiorghiesei					
		ve catego	ry of	DC						
	scipline									
Compulsory discipline			Compulsory							
Veen	Sem	hours	week	ho	urs/semes		T. (. 1	C 1'	Type of	
Year		Sem	Sem	С	LP/S	C	LP/S	SI	Total	Credits
5	1	1,5	2	21	28	26	75	3	E	

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

Professional	• Knowledge of requirements for setting up a dental office.			
competences	• 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	• Knowledge of basic concepts of dental office management.
objectives	
Specific	• Acquisition of concepts related to the health care system.
objectives	• 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 methods	Lecture, systematic interactive presentation					
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 vit					
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							
activity carried							
out by students							
Content	1. Workplace Safety T	raining					
Content	2. Infectious control and management of hazardous materials in the						
	dental office.						
		uit in the Dentistry office.					
	4. Filling in patient's r						
		patient the informed cons	cent and CDPP				
	6. Clinical management		sent and ODI K.				
	7. Carrying out the tre	mmunication in complex	traatmanta				
		treatment plan to the pati					
		ntal treatment among pedi					
		ntal treatment among geri					
		ntal treatment among anxi	ous patients.				
	13. Overview.						
	14. Overview.						
Bibliography	1. Gorczyca, Ann Marie. It All Starts With Marketing. Editura Authority Publishing, 2015.						
	2	<u> </u>	Presting Of Vour				
	,	ow To Build The Dental I					
	Dreams. Editura Advantage Media Group, 2015.						
	3. Okuji, Michael M. Dental Benefits And Practice Management: A Guide For Successful Practices. Editura John Wiley & Sons, 2016.						
			2				
		Jane et al. Sociology And	rsychology for the				
		itura Polity Press, 2016.	nagamant Of Hazardowa				
	5. Miller, Chris H. Infection Control And Management Of Hazardous						
	Materials For The Dental Team. Editura Elsevier, 2017.						
	6. Polansky, Barry. The Complete Dentist: Positive Leadership And Communication Skills For Success. Editura Wiley, 2017.						
Evaluation:	Communication Skills For Success. Editura Wiley, 2017.Written ExamPractical ExamActivity during the						
		I Tacucal Esam	semester:				
Percent of the	70%	%	<u>30%</u>				
final grade:	/0/0	/0	JU / U				
iniai graue.							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	DENTAL IMPLANTOLOGY

Responsible for lecture			Prof. I)r. Bran S	Simion				
Responsible for practical		Assist.	Assist. Dr. Barbur Ioan						
activit	y			Assist.	Assist. Dr. Opriș Horia				
The fo	The formative category of		DS	DS					
the dis	the discipline								
Comp	Compulsory discipline		Compu	lsory					
	7	hours/week		ho	urs/semes	ter		<i>a</i> . "	Type of
Year	Year Sem C LP/S		C	LP/S	SI	Total	Credits	Assessment	
5	1	1	2	14	28	33	75	3	E

Pre-conditions (Preliminary conditions)	 Knowledge of prosthetic restorations (clinical and in the dental laboratory). Morphology and function of the oral system. Dental 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 lectures and practical activities	 Location for course unfolding – amphitheater with projection systems. Laboratories that offer proper conditions for the practical courses to unfold. Offices with dental chairs.

Professional	•Acquiring the theoretical and practical notions that concern the			
competences	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 objectives	• The course offers the ifth year students of the Dental Medicine Faculty 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.
	2.3 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
activity carried	methods to produce the implant supported dentures.
out by students	
Content	1. Introduction in Implantology. The stages of implant treatment.
	Terminology.
	2. Examination and diagnosis in Oral Implantology.
	Clinical diagnosis
	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 - surgical guides. 3D planning

	software.						
		lentures. Progressive bo	one loading.				
			and indirect impression				
	methods.	Ĩ	-				
	7. Prosthetic abutment	ts. Red and white aesthe	etics.				
	8. Conception and manufacturing of the superstructure.						
	9. Cement-retained crowns and bridges. Screw-retained crowns and						
	bridges.						
	10. Single tooth restau	irations.					
	1	ained crowns and bridge					
		es – teeth and implant s					
		of implant supported der					
	<u> </u>	lications in implant pros	sthetics. Repairing the				
	dentures.						
Bibliography	1. Data bases: Pubmed, Medline, Embase, Science Direct, WoS						
		Clinical Key (Elsevier).					
	2. Sonick M, Hy Sons Inc. 2012.	wang D. Implant Site D	evelopment, John Wiley &				
		alakythas A. Managam	ant of Complications in				
	3. Miloro M, Kolokythas A. Management of Complications in Oral and Maxillofacial Surgery, DOI:10.1002/9781118704493, John						
	Wiley & Sons Inc. 2012.						
	4. Felisati G, Chiapasco M. Sinonasal Complications of Dental						
	Disease and Treatment: Prevention–Diagnosis–Management. ed. 1st						
	Edition. Stuttgart: Thieme; doi:10.1055/b-006-149711, 2015.						
	5. Froum SJ. Dental Implant Complications: Etiology,						
	Prevention, and Treatment, 2, John Wiley & Sons Inc. 2016.						
	6. Resnik RR, Misch CE. Avoiding Complications in Oral						
	Implantology, Elsevier, Mosby, St. Louis, USA, 2017.						
	7. Resnik, Randolph R. Misch's Contemporary Implant Dentistry,						
	editia a 4-a, Editura E						
	-	Rubio NA. Digital Dent	1 01				
Evaluation:	Written Exam	o Guided Surgery, Sprin	0				
Evaluation:	written Exam	Practical Exam	Activity during the semester:				
Percent of the	70%	30%	<u>%</u>				
final grade:	/0/0	JU /0	/0				
illiai gi aue.							

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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

Discip	Discipline		Dental Propedeutics and Esthetics						
Cours title		ESTHETICS IN DENTAL MEDICINE							
Respo	nsible 1	for lectu	re	Assoc.	Prof. Dr	. Alexar	ndra Agh	iorghiesei	
Respo	nsible i	for pract	ical	Conf. I	Dr. Alexai	ndra Agh	niorghiese	i	
activit	y			Conf. I	Dr. Marius	s Manole	e		
				Şef. Lu	cr. Dr. Ci	ristina G	asparik		
				Asist. U	Asist. Univ. Dr. Bianca Varvară				
				Asist. Univ. Dr. Corina Prodan					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	e							
Comp	ulsory	disciplin	e	Compu	lsory				
	hours/week		hours/semester		_		Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	1	1	14	14	22	50	2	E

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.			

	 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 objectives	• Acquiring information related to facial, dento-facial and dental esthetics, required for complex, esthetic rehabilitations of the dental arches.
Specific objectives	 Knowledge of the general principles of dentist-patient-dental technician 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	Systematic, interactive lectures supported by PowerPoint	
methods	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		
Teaching methods	• Practical demonstrations and exercises in the simulation rab and dental 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.	
a	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.	
	11. Preparation exercises for labial veneers.	
	12. Preparation exercises for veneers with proximal and oral extension.	
	13. Review presentations.	
	14. Review presentations.	
Bibliography	1. Aghiorghiesei AI. Esthetics in Dental Medicine - Suport de curs în	
	format electronic. Cluj-Napoca, 2022.	
	2. Dudea D. Noțiuni de examinare în estetica dento-facială. Ed Grinta,	
	2010.	
	3. FB Naini. Facial Aesthetics. Concepts and Clinical Diagnosis. Wiley-	
	Blackwell 2011.	
	4. Fradeani M. Esthetic Analysis. A systematic Approach to Prosthetic	
	Treatment Quintessence books, 2004.	
	5. Chu S, Paravina R, Devigus A, Mieleszko A. Fundamentals of Color,	

	Shade matching and	Communications in H	Esthetic Dentistry. 2nd ed						
	0		L'une de Dentistry. 2110 eu						
	Quintessence Publishi	0							
	0		d prosthodontics, 4th ed.,						
	Quintessence Publishing Co Inc., 2012.								
	7. Lazarescu F (su	b redactia) Comprehe	ensive Esthetic Dentistry.						
	Quintessence Publ, Be	erlin 2015.							
	8. WR Profitt et al. C	ontemporary Orthodont	ics. Sixth Edition. Elsevier						
	Inc 2019.								
	9. Goldstein R, Chu	S, Lee E, Stappert C,	Goldstein R. Esthetics in						
	dentistry. 3rd ed. Wiley Blackwell; 2018.								
	10. Freedman G. Contemporary esthetic dentistry. St. Louis, Mo.:								
	Elsevier; 2012.								
	11. Levine J. Smile design integrating esthetics and function.								
	Edinburgh: Elsevier; 2	2016.							
Evaluation:	Written Exam Practical Exam Activity during the								
		semester:							
Percent of the	500 /	2007	200/						
final grade:	50%	30%	20%						

Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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 II	- License	and mas	sters		
Qualif	fication			Doctor	of Dental	Medici	ne		
Depar	tment			4 Com	nunity m	edicine			
Discipline			Forensic Medicine						
Cours title			FORENSIC MEDICINE						
Responsible for lecture			Lecturer Dr. Chiroban Ovidiu						
Responsible for practical			Lecture	er Dr. Chi	roban O	vidiu			
activit	y			Assist.	Assist. Dr. Ureche Daniel				
The fo	ormativ	e catego	ry of	DD					
the dis	scipline								
Compulsory discipline		Compulsory							
			hours/week	ho	urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	1	1	1	14	14	22	50	2	E

Pre-conditions (Preliminary conditions)	Anatomy, Pathological Anatomy, Physiopathology, Semiology, Orthopedy, Neurosurgery, Radiology, Psychiatry.
Requisities for lectures and	 Students will not attend courses / practical activity with open mobile phones. Also, telephone conversations will not be

practical activities	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. 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
0.0000000	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
0	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),
	• Knowledge of early and rate cadavence changes (sights of rear dearly, 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,
6
• 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 lega	l medicine activity. Juridic	al bases, Legislation.			
	2. Thanatology.					
	3. Traumatic injuries.					
	4. Injuries and death c	aused by its own means of	attack - human defense.			
	5. Injuries caused by v	weapons. Falling and precip	pitation injuries.			
	6. Mechanical asphyxi	iation.				
	7. Forensic road accid	ents.				
	8. Firearms injuries.					
	9. Physical agents.					
	10. Chemical agents.					
	11. The forensic examination of life persons. The forensic examination					
	in obstetrics and gyne					
	12. Psychiatric experti					
	13.Malpractice in dent					
	14. Expertise of DNA and other kind of forensic identification.					
Bibliography	15. Perju-Dumbravă Dan, Legal Medicine, Ed. Medicala Universitara					
	"Iuliu Hatieganu" 2017.					
Evaluation:	Written ExamPractical ExamActivity during the semester:					
Percent of the	60%	30%	10%			
final grade:						

Institu	tution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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	ish			
Level	of cour	rse		I and II	- License	and mas	sters			
Qualif	fication	1		Doctor	of Dental	Medici	ne			
Depar	tment			4 Com	nunity m	edicine				
Discip	line			Occupa	ational me	dicine				
Cours title				HEALTH PROMOTION						
Responsible for lecture			re	Assoc. Prof. Dr. Armand Rajnoveanu MD PhD						
Responsible for practical			Lecturer dr. Răzvan Ionuț							
activity			Lecturer dr. Andreea-Iulia Socaciu							
				Lecture	er dr. Mar	ia Bârsa	n			
				Asist. univ. dr. Andreea-Petra Ungur						
The fo	ormativ	ve catego	ry of	DD						
the dis	scipline	e								
Comp	ulsory	disciplin	e	Compulsory						
* 7			/week	ho	urs/semes	ter			Type of	
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment	
5	1	1	1	14	14	22	50	2	Е	

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

 The ability to use the specialized terminology appropriately and in the context. Deepening the notions of primary, secondary and tertiary prophylaxis. Preserving the health of employees by raising awareness of occupational risk factors and specific conditions able to generate occupational and work-related diseases.
 Deepening the notions of primary, secondary and tertiary prophylaxis. Preserving the health of employees by raising awareness of occupational risk factors and specific conditions able to generate
 Continuous improvement of the quality of life correlated with occupational health. Implementation of health-promoting behavior among dental professionals. Improving the ability to render theoretical knowledge in medicine.
 Concrete ways of positive diagnosis of an occupational disease.
• Ability to communicate effectively with the patient.
• Interest for professional development by engaging critical thinking skills.
 Involvement in research activities, such as the development of scientific articles. Demonstration of the ability to use digital media in order to obtain medical information. Use of assimilated notions in new contexts. Application of theoretical notions in practical activity. Establishing interdisciplinary correlations within the fields studied.
• Assimilation of an informational core regarding the relationship
 between workplace and health status. Gaining the basic knowledge necessary in recognizing the main occupational and work-related diseases and the main therapeutic and profilactic principles.
 Acquiring knowledge related to occupational health concepts.
 Definition of the concepts of occupational disease, work-related disease. Specification of the declaration circuit and the pathogenetic mechanisms of the professional pathology. The ability to perform professional anamnesis and clinical examination of the patient. Identification of occupational exposure markers. Occupational health promotion.

Monitoring and management of occupational diseases.
• Practicing the ability of synthesis and bibliographic documentation.

	LECTURES			
Teaching	Oral lectures duplicated by PowerPoint presentations, movies,			
methods	pictures.			
Content	1. Occupational risk factors, generalities.			
	2. Occupational disease. Work-related disease.			
	3. Occupational asthma.			
	4. Pneumoconioses.			
	5. General occupational toxicology notions.			
	6. Occupational toxicology: heavy metal poisoning.			
	7. Occupational toxicology: organic solvents and asphyxiating gases			
	intoxication.			
	8. Occupational pathology caused by physical factors (noise).			
	9. Occupational pathology caused by physical factors (vibrations).			
	10.Occupational risks in the hospital environment.			
	11. Occupational pathology caused by unfavorable microclimate			
	conditions .			
	12. Occupational dermatoses.			
	13. Musculoskeletal overload: classification, high-risk jobs.			
	14. Occupational pathology induced by musculoskeletal overload.			
	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.			

	0 Watching a video about accumptional concern and discussing the
	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
0 4 4	knowledge by completing a recapitulative questionnaire.
Content	1. General duties of the occupational health service under Convention
	161 of the International Labour Organisation.
	2. Notions of occupational selection and orientation, adaptation,
	examination of new employees and periodical medical check-up.
	3. Diagnosis of occupational disease: criteria, reporting, research,
	declaration and recording 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.
	7. Technique of monitoring respiratory function in staff at risk of
	chronic bronchopneumopathy.
	8. Standard ventilatory functional samples, investigation of small
	airways, FEV ₁ decline rate, bronchial challenge tests.
	9. Cardiovascular functional samples, their application in the field of
	occupational medicine: Teslenko, Crampton, and Brouha tests.
	10. Interpretation of a standard chest X-ray for the diagnosis of
	pneumoconiosis, according to the International Classification ILO 2000.
	11. Performing and interpreting an audiogram. Diagnosis, treatment and
	prophylaxis of a case of occupational hearing loss.
	12. Diagnosis of a case of silicosis, occupational asthma, occupational
	metal intoxication, occupational intoxication with organic solvents.
	13. Diagnosis of a case of occupational Raynaud's syndrome,
	occupational hearing loss, occupational or work-related osteo-
	musculoskeletal pathologies and dermatosis.
	14. Occupational cancer: hazards, jobs, technological processes.
Bibliography	1. Cazamian P. Traite d' Ergonomie. Ed. Octares Entreprises,
	Marseille, 1987.
	2. Cocârlă A. (coordonator). Medicina Ocupațională. Ed. Medicală
	Universitară "Iuliu Hațieganu", Cluj-Napoca, 2009.
	3. Cocârlă A., Tefas L., Petran Marilena. Manual de Medicina Muncii.
	Ed. Medicală Universitară "Iuliu Hațieganu", Cluj-Napoca, 2000.
	4. Dessoile H., Scherrer J., Truhaut R. Precis de Medecine du Travail.
	Ed. Masson, Paris, 1984.
	5. La Dou Joseph. Occupational Medicine. Ed. Appleton & Lange,
	Norwalk, Connecticut, 1990.
	6. Manu P. Niculescu T. Practica Medicinii Muncii, Ed. Medicală,
	București. 1978.
	7. Oarga Marilena. Medicina Muncii. Ed. Medicală Universitară
	"Iuliu Hațieganu", Cluj-Napoca, 2006.

	8 Rom William N	Environmental and O	Compational Medicine. Ed.	
		Co, Boston, 1992.	eeuputional meatonie. Da	
	9. Tefas L, Pop I	L. Bolile profesionale	ale sistemului musculo- nu" Cluj-Napoca, 2004.	
	10. Zenz Carl. Occupational Medicine. Principles and Practical Applications., Ed. Year Book Medical Publishers, INC, Chicago, 1988.			
	 Baxter PJ, Aw TJ, Cockroft A, Durrington P. Hunter's Diseases of Occupation, 10th edition, 2010. 			
	 Manu P., Niculescu T., Practica Medicinii Muncii, Ed. Medicală, Bucureşti. 1978. 			
	13. HG 1169 din 12.12.2011 pentru modificarea și completarea HG			
	355/2007 privind supravegherea sănătății lucrătorilor.			
	14. Toma I. Practica Medicinii Muncii, Sitech, Craiova, 2006.			
Evaluation:	Written Exam	Practical Exam	Activity during the	
			semester:	
Percent of the final grade:	75%	25%	0%	

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"					
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 II	- License	and mas	sters		
Qualif	fication	1		Doctor	of Dental	Medicin	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and radio	logy	
Discip	line			Maxille	oFacial Su	urgery ar	nd Implan	tology	
Cours title			MEDI	CO-SUR	GICAL	EMERG	ENCIES	IN	
			DENTAL MEDICINE						
Respo	nsible 1	for lectu	re	Vacancy position Lecturer pos. 25					
Respo	nsible i	for pract	ical	Assis. Prof. Opris Daiana Antoaneta					
activit	y			Assis. Prof. Opris Horia Octavian					
				Assis. Prof. Stoia Sebastian					
				Assis. Prof. Tamas Tiberiu					
The fo	ormativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
**	a	hours/v		ho	urs/semes	ster	m / 1		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.
conditions	Physiopathology. General and dento-maxillary apparatus

(Preliminary conditions)	 semiology. Internal medicine. Pediatrics. Pharmacology. Dental 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 and practical activities	 Lectures will be held in a projection system – equipped amphitheater. Laboratories with specific equipment for specific practical activities . Offices equipped with dental units, patient wards, treatment rooms, operating rooms. 		

Professional	• Acquiring theoretical and practical specialty-specific patient				
competences	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				
	analytic and synthetic thought processes.				
	• Proving involvement in research activities, such as elaborating scientific articles.				
General	• This Course offers Vth year students of Dental Medicine in the				
objectives	University of Dental Medicine theoretical knowledge about symptoms				
0	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 objectives	• Knowledge of symptoms and emergency diagnosis for 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 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 methods	• Lecture, Power-Point presentations, systematic interactive 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. Cardiorespiratory and cerebral resuscitation: stages of resuscitation, used medicine. Cardiorespiratory and cerebral resuscitation: resuscitation technique, resuscitation in special situations. Respiratory emergencies: notions of pathophysiology, acute respiratory failure, pulmonary embolism, asthma, acute angioedema, airway obstruction. Cardio-circulatory emergencies: notions of pathophysiology, angina pectoris, acute myocardial infarction, hypertensive crisis, hypotension, global cardiac insufficiency. Cardio-circulatory emergencies: reminder of the notions of 			

	alastroagerdiagraphy rhythm disordars			
-	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			
<u> </u>	general anesthesia in dentistry. PRACTICAL ACTIVITIES			
Taaahing				
Teaching methods	Power-Point presentations, interactive teaching.			
Practical	Scheduled interactive learning Practical activities with the			
activity carried	Scheduled interactive rearring. I fueriour der vities with the			
out by students	showcasing and practising of first aid techniques and maneuvers on teaching models.			
Content	1. The emergency apparatus inside the dental office. The			
Content				
	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 shock. 13. Differential diagnosis of metabolic comas. Differential diagnosis: clinical death, cerebral death. 14. Monitoring patients during the interventional period in dentistry. Incidents and complications of oral, iv and im sedation techniques in dentistry.
 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 complications of oral, iv and im sedation techniques in dentistry.
 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 complications of oral, iv and im sedation techniques in dentistry.
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 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 complications of oral, iv and im sedation techniques in dentistry.
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 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 complications of oral, iv and im sedation techniques in dentistry.
 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 complications of oral, iv and im sedation techniques in dentistry.
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dentistry. Complications of anesthesia in dentistry. Incidents and complications of oral, iv and im sedation techniques in dentistry.
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
în medicina dentară, Editura Medicală Universitară "Iuliu
Hațieganu" Cluj-Napoca, 2014, 249 pag, ISBN 978-973-693-577-0.
2. Ileana Mitre, Grigore Băciuț, Mihaela Felicia Băciuț, Iuliu George
Moldovan, Bogdan Crișan, Liana Crișan, Cristiana Balog, Mădălina
Anca Lazăr, Ioan Barbur, Dispozitive și manopere utilizate pentru
tratamentul urgențelor, Editura Medicală Universitară "Iuliu
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emergency department sepsis (ARISE FLUIDS), a multi-centre
observational study describing current practice in Australia and
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doi:10.1111/1742-6723.13469.
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	 2020;153:45-55. 9. Nolan JP, Sandro Council and E guidelines 2021 2021;47(4):369-4 10. Hossny E, Ebisay food allergy in 2019;12(11):1000 doi:10.1016/j.wat 11. Cardona V, An organization ana 2020;13(10):1004 doi:10.1016/j.wat 12. Jeimy, Samira management of Canadian Society asthma, and clini Society of Allerg 2020. 	ojou.2019.100089. sootegui IJ, Ebisawa M, phylaxis guidance 2020. W 472. Published 2 ojou.2020.100472. et al. "Practical guide beta-lactam allergy: position y of Allergy and Clinical I cal immunology : official j sy and Clinical Immunology	2020.06.001. European Resuscitation nsive Care Medicine Intensive Care Med. 1-06368-4. Challenges of managing orld Allergy Organ J. 2019 Dec 2. et al. World allergy Vorld Allergy Organ J. 2020 Oct 30. for evaluation and on statement from the Immunology." Allergy, ournal of the Canadian y vol. 16,1 95. 10 Nov.
Evaluation:	Written Exam	Practical Exam	Activity during the
	(00/	400/	semester:
Percent of the final grade:	60%	40%	%

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hatieganu"					
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	Orthodontics					
Cours title	ORTHODONTICS AND DENTO-FACIAL					
	ORTHOPAEDICS					
Responsible for lecture	Assoc. Prof. Dr. Dana Feștilă					
Responsible for practical	Assoc. Prof. Dr. Dana Feștilă					
activity	Lecturer Dr. Mircea Ghergie					
	Assist. Dr. Olimpia Bunta					
	Asist. Drd. Tudor Suciu					
	Vacant Conf.poz 3,Şef Lucrări poz.7					
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
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	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	incluence exercises on real and virtual supports (custs, pictures).							
Practical	Examination and patient files.							
activity carried	Taking patients impressions.							
out by students	 Exercises of recognising the teeth and occlusal relations, 							
out ag students	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.							
	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							
	devices.							
	11. Miogymnastic exercises.							

Percent of the final grade:	50%	40%	10%					
Evaluation:	Written Exam	Practical Exam	Activity during the semester:					
	Cristian, Aparate	ortodontice, University P	ress, 2018.					
		la, Pacurar Mariana, Bratu						
		rol Davila", Bucuresti, 20						
		a, Manual pentru rezidenti	at, vol 2. Editura					
	4. Thilander Birgit, Willey and Sons,	Bondemark Lars Bjerklin 2017	. Essential Orthouontics,					
	Elsevier, 2015.	Rondomark Lara Riarklin	Essential Orthodoptics					
	-	e Andrew DiBiase. Handb	ook of Orthodontics,					
	_	orary Orthodontics, 6th E						
	2. William R. Proffi	it, Henry W. Fields, Brent	Larson, David M.					
	6 th Edition, Elsev		1 1					
		Orthodontics: Current Prin						
Bibliography		Robert L. Vanarsdall, Jr., I	Katherine W. L. Vig,					
	14. Presentation of cli							
	13. Presentation of cli	nical cases						
	shaving of temporary teeth. Temporary teeth extraction in an orthodontic scope.							
	· · · ·	ion and curative: exercises						
1		blication of small measure						

	Institution for graduate and postgraduate studies				University of Medicine and Pharmacy "Iuliu Hațieganu" Cluj-Napoca					
Faculty		Dental Medicine								
Domain of st	udv		Health	<u>iviculente</u>	·					
Academic de			Dental	Medicine	in Engli	sh				
Level of cou	rse		I and II	- License	and mas	sters				
Qualification	ı		Doctor	of Dental	l Medicii	ne				
Department			3 Oral	Rehabilita	ation					
Discipline			Periodo	ontology						
Cours title			PERIODONTOLOGY							
Responsible	Vacant Position SL 23									
Responsible	Lecturer Stefan Adrian Petrutiu									
activity			Asist. Univ.Dr. Daniela Condor							
			Asist. Univ.Dr.Cosmin Cioban							
			Asist. Univ. Drd. Alina Stanomir							
			Vacant Position AS 40							
The formativ	ve catego	ry of	DS							
the discipline										
Compulsory	Compulsory discipline			Compulsory						
V G	hours	/week	ho	urs/semes				Type of		
Year Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment		

5	2	2	3,5	28	49	48	125	5	E
	т	D	1	0 1 1	•	OT ' 1'	1 1 .	1	

Pre-conditions (Preliminary conditions) Requisities for lectures and practical activitie	 Histology, immunology, physio-pathology, microbiology, internal medicine, scientific research methodology. Clinical studies analysis. Amphitheater with projection system/ Online virtual system Preclinical laboratory with preclinical study models and audio/video system. Dental units. Application of the internal rules and regulations.
	 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 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.
competences	 Ability to communicate with the periodontal patient regarding the 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 objectives	• At the end of the activity the student will be able to properly evaluate 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 objectives	 Provide the theoretical knowledge about periodontal entities 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 methods	Lectures, systematic and interactive presentations, Power point / oral presentations.
methods Content	oral presentations. 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. Reevaluation 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		sentation of working protoc					
methods		materials used , presentation	on of the application				
	technique / proce	edure realization.					
Practical	Realization and a	repetition of the maneuvers	s on preclinical models.				
activity carried	Assisting and/or	realization of clinical proc	edure.				
out by students		-					
Content	1. Manual sub-ging encounter).	ival scaling with Gracey cr	urettes (pre-clinical				
	/	hanical sharpening of Grac	ou ourottos (pro olipical				
	encounter).	namear sharpening of Orac	ey curenes (pre-chinicai				
	3. Subgingival scaling and root planing on anterior teeth (clinical						
	encounter).	ing and root plaining on and	chor teeth (enniear				
		ing and root planing on pos	sterior teeth (clinical				
	encounter).	ing and root planning on pos	sterior teeth (ennieth				
	,	ocal risk factors of periodo	ontitis (preclinical				
	encounter).		(p				
	,	ocal risk factors of periodo	ontitis (clinical				
	encounter).	r r					
	,	gival recessions (pre-clinic	cal encounter).				
		tion of gingival recessions					
		observation chart (clinical					
	9. Identification of sites with biological width invasion (clinical						
	encounter).						
	10.Assisting on a pe	10.Assisting on a periodontal regenerative or pocket reduction therapy					
	(clinical encount	er).					
	11.Assisting on a cr	own lengthening therapy (clinical encounter)				
	· ·	teeth using fixe prostheses	s or fiber reinforced				
	composites (prec	linical encounter).					
	13.Splinting mobile	teeth using fiber reinforce	d composites (clinical				
	encounter).						
	14. Antisepsis and disinfection of periodontal instruments, preparation of the surgical field in periodontology (clinical encounter).						
Bibliography	1. Soancă A, Roman A. Concepts in Periodontal Therapy. Ed Med Univ						
	Iuliu Hatieganu, 2019 (ISBN 978-973-693-897-9).						
	2. Roman A et al. Parodontologie 1. Noțiuni de bază. Ed Med Univ						
	Iuliu Hatieganu 2019 (ISBN 978-973-693-902-0).						
	3. Roman A., Soancă A. Clinical manual of periodontology, Ed Med						
	Univ Iuliu Hatieganu 2011 (ISBN 978-973-693-471-1). 4. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman and						
		eriodontology, 13th Edition					
	5. Lang NP, Berglundh T, Giannobile WV, Sanz M(Eds). Lindhe's Clinical Periodontology and Implant Dentistry, 7th Edition, Wiley-						
		rd, 2021(ISBN: 978-1-119					
Evaluation:	Written Exam	Practical Exam	Activity during the				
			• •				
Evaluation:	written Exam	Practical Exam	semester:				

Percent of the	50%	40%	10%
final grade:			

Institu	ition fo	r gradua	to and	Univer	sity of M	dicino o	nd Dhorm	oov "Juliu	Hatiaganu"
	Institution for graduate and postgraduate studies			University of Medicine and Pharmacy "Iuliu Haţieganu" Cluj-Napoca					
		studies			•				
Facul	v			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engl	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	Medici	ne		
Depar	rtment			4 Prost	hetics and	l Dental	materials		
Discip	oline			Prosthe	etic Dentis	stry			
Cours	Cours title		PROS	PROSTHETIC DENTISTRY					
Respo	Responsible for lecture		Lecturer Dr. Cecilia Bacali						
Respo	nsible	for pract	ical	Dr. Bacali Cecilia					
activit	ty			Dr. Ispas Ana					
	-			Dr. Craciun Antarinia					
				Dr. Manziuc Manuela					
				Dr. Tisler Corina					
The fo	rmativ	ve catego	rv of	DS					
	scipline	0	19 01						
Compulsory discipline		Compulsory							
comp	hours/week			urs/semes	ter				
Year	Year Sem		~	C	LP/S	SI	I Total Credit	Credits	Type of
		C	LF/S	C	Lr/S	51			Assessment
5	2	2	4	28	56	41	125	5	E

Pre-conditions (Preliminary conditions)	 Notions from the subjects studied in the previous years: Head and neck anatomy. Dento-maxillary system morphology and functions. Complete denture technology. Occlusology. 	
Requisities for lectures and practical activities	Amphitheatre with projection system.Practices with dental units and appropriate equipment.	

Professional	• Acquisition of specific terminology and ability to use it appropriately,					
competences	in the proper context.					
	• Ability to perform the clinical examination of the edentulous patient,					
	using anatomical notions corresponding to: head and neck, cranial					
	bones, mandibular mobilizing muscles and periprosthetic muscles					
	anatomy.					
	Extensive knowledge regarding the morphology of the alveolar arches					
	(shape, occlusal curves, occlusal contacts) and of the permanent teeth					
	(cusps, fossae, marginal ridges, incisal edges, palatal surfaces),					
	prerequisites for prosthetic rehabilitation of the complete edentulism.					

	 Ability to understand and apply the concepts of centric relation and of maximum intercuspation, as well as the relationship between them in edentulous patients, respectively in the prosthetic rehabilitations. Acquisition of notions related to the mandibular rest position, vertical dimension at rest and vertical dimension of occlusion, with practical applicability in the rehabilitation of the optimal jaw relation, an essential step in the treatment of complete edentulism. Understanding of the medical reasoning in the treatment of complete edentulism, the logic behind the fabrication of complete dentures; acquisition of the optimal factor of the specific prosthetic treatment. Development of the ability to synthesize, in an interdisciplinary way, notions of anatomy, physiology, occlusology, in order to know and understand how to restore the morphology and the main functions of the dento-maxillary system using complete dentures. Improvement of the capacity to transfer the acquired theoretical knowledge regarding the complete edentulism and its prosthetic treatment to clinical activity. Acquisition of the practical experience needed for the use of specific intervente and water of the ability of the approximation of the specific prosthetic treatment of the use of specific intervente and how to restore here the optimal and its prosthetic treatment to clinical activity.
	instruments and materials (for each clinical step).
Transversal	• Ability to establish correlations between theoretical notions specific to
competences	the studied subject.
	• Integration of the acquired notions into an interdisciplinary context and
	the ability to use them in complex situations.
	• Application of the acquired theoretical knowledge in clinical activity.
General	• Acquisition of the basic notions regarding the clinical study of complete
objectives	edentulism and the basic principles of prosthetic treatment, in order to
	restore the morphology and functions of the dento-maxillary system.
Specific	• Extensive clinical study of complete edentulism, highlighting the
objectives	morpho-functional particularities of the edentulous state.
	• Knowledge regarding the etiological factors of complete edentulism and
	the extent to which they contribute to the exacerbation of the clinical
	symptoms in the edentulous patient, including the increase in difficulty
	of the prosthodontic treatment.
	• Understanding the evolution and dysfunctional manifestations
	associated to complete edentulism and the importance of dentures in proventing the occurrence of major complications that affect the general
	preventing the occurrence of major complications that affect the general status of the patient.
	 Acquisition of theoretical and practical notions related to the prosthetic
	• Acquisition of theoretical and practical notions related to the prosthetic therapy of complete edentulism, which is a pathological condition of the
	dento-maxillary system.
	 Acquisition of clinical notions on the prosthetic treatment in complete
	edentulism by direct practice on the patient, by analysing the clinical
	steps performed during the practical work and also by thematic debates
	with the participation of the teaching staff and other students.
L	stant and participation of the teaching start and other stadents.

• Development of the capacity to apply the acquired theoretical notions into the practical activity.
• Development of the capacity to synthesize the acquired theoretical notions.
• Acquisition of the methodology and skills for bibliographic documentation.

	LECTURES					
Teaching methods	Power-Point presentations, interactive exposure.					
Content	1. The concept of complete edentulism: definition, generalities. Clinical study of complete edentulism: etiology, symptomatology, evolution, complications.					
	2. Morphological and functional alterations of the edentulous patient dento-maxillary system regarding: the bone, the mucosa, the muscles and the temporomandibular joint.					
	3. Morpho-physiology of the maxillary and mandibular denture bearing area: support area (bone substrate and mucosal substrate) and border sealing area.					
	4.Periprosthetic muscles and their role in dento-maxillary system and complete dentures functions. Physical, morphological and functional factors involved in the retention and stability of the complete dentures.					
	5. Functional zones of the maxillary denture bearing area.					
	6. Functional zones of the mandibular denture bearing area.					
	 7. Clinical examination of the edentulous patient: anamnesis, objective examination, diagnosis, treatment options, goals. Clinical forms of the denture bearing area. 8. Impression of the denture bearing area: definition, principles and general objectives. Impression materials used in the registration of the denture bearing area (types, composition, properties, manipulation). 9. Preliminary impression: generalities, goals, steps. Final impression: generalities, goals, steps. Custom trays checking. 					
	10. Classification of final impression techniques, description, advantages, disadvantages. Specific techniques: Herbst, Schreinemakers, Devin.					
	11. Jaw relation registration: theoretical considerations, the sequence of clinical steps, common methods and techniques. Considerations about articulators and master casts mounting in the articulator.					
	12. Principles in artificial teeth selection and placement. General rules for teeth placement and occlusion.					
	13. Trial dentures extraoral and intraoral control.					
	14. Final dentures placement, control and adjustments in the oral cavity; esthetic, phonetic and occlusal relations control. Instructions and recommendations for complete denture care. Introduction in special					
l	prosthetic treatment techniques used in the rehabilitation of complete					

	edentulism.						
	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.						
out by students	presentations.						
Content	1. Preliminary examination of the edentulous patient, investigation of						
Content	the case history and filling in the examination file. Patients referred to						
	specialized services for undergoing paraclinical, complementary						
	examinations and for obtaining the written consent from other specialists.						
	2. Treatment plan and filling in the patient's prosthetic file. Case						
	documentation (initial photos, study casts). Planning of the clinical						
	steps.						
	3. Pre-prosthetic treatments in conjunction with other specialized services.						
	4. Preliminary impression of the denture bearing area. Impression disinfection and control.						
	5. Analysis of the preliminary impression and delimitation of the						
	functional limits of the denture bearing area. Instructions to the						
	laboratory for the custom tray fabrication (partial/full distancing, undercuts correction). Impression transfer to the laboratory						
	undercuts correction). Impression transfer to the laboratory.6. Custom tray control and adjustments in order to obtain an adequate						
	final impression. Improvements of the borders in the key areas, specific						
	tests used to check the border seal.						
	7. Final impression using the adequate technique (according to the						
	clinical situation), simple/combined impressions, compressive/non						
	compressive impressions.						
	8. Analysis of the master casts, drawing of the areas to be decompressed,						
	engraving of the upper cast distal area.						
	9. Extraoral and intraoral control of the occlusal rims.						
	10. Jaw relation registration. Determination of the vertical dimension at						
	rest and the vertical dimension of occlusion. Practice of mandible						
	guiding techniques in centric relation.						
	11. Trial dentures - extraoral and intraoral control.						
	12. Final dentures placement into the oral cavity. Instructions and						
	recommendations for complete denture care.						
	13. Subsequent sessions for dentures controls, adjustments,						
	optimisations and repairs.						
	14. Practical demonstrations of special techniques: immediate dentures						
	and overdentures.						
Bibliography	1. Zarb G, Hobkirk JA, Eckert SE, Jacob RF. Prosthodontic						
	Treatment for Edentulous Patients.Complete Dentures and Implant-						
	Supported Prostheses. 13th edition, Mosby 2013.						
	2. Constantiniuc M, Bacali C . Clinic and prosthetic therapy of the full						

	edentulous patient. Ed. Med. Univ. Iuliu Hatieganu. Cluj-Napoca 2018.					
Evaluation:	Written ExamPractical ExamActivity during the semester:					
Percent of the final grade:	50%	40%	10%			

Institu	tion fo	n anoduc	to and	Univer	situ of M	diaina	nd Dhorm	oov "Juliu	Untingenu"
	Institution for graduate and postgraduate studies		University of Medicine and Pharmacy "Iuliu Hațieganu"						
		e studies		Cluj-Na					
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 II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	rtment			2 Cons	ervative (Odontolo	ogy		
Discip	oline			Odonto	ology, Enc	lodontic	s and Ora	l Patholog	У
Cours title		RESTORATIVE ODONTOTHERAPY							
Responsible for lecture		Vacancy lecturer 18							
Responsible for practical		Vacant	Vacant Lecturer 18						
activit	t y			Assist.	Dr. Pop I	Dan			
	-			Assist. Dr Marius Bud					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	e	•						
Compulsory discipline		Compulsory							
			/week	ho	urs/semes	ster			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	2	1	3	14	42	44	100	4	Е
5	2	1	3	14	42	44	100	4	E

Pre-conditions (Preliminary conditions)	• Diagnosis of dental caries, techniques of restorative 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 competences	 The ability to use the theoretical knowledge and practical skills of 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
Ū	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.
	- Exercise of synthesis and biolographic 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.					
	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						
activity carried	patient.						
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.						
	1						
Bibliography	14. Evaluating patients at risk in dental treatment.1.Jacques Lasfargues et Pierre Colon: Odontologie conservatrice et						
Dibilography	restauratrice -une approche medicale globale ;Ed.CdP 2010 Wolters						
	Kluwer, France (2010).						
	2.Adrian Lussi;Markus Schaffner : Advances in RestorativeDentistry;						
	Ed. Quintessence 2012.						
	3. Minimal intervention dentistry:part 4. Detection and diagnosis of						
	initial caries lesions; A. Guerrieri, C. Gaucher, E. Bonte and J. J.						

	Lasfargues British Dental Journal volume 213 no. 11 dec 8 2012. 4.Summitt J.; Robbins W.; Schwartz R. : Fundamentals of operative Dentistry ; Ed. Quintessence 2016. 5.Mount G.; Hume W.R.: Preservation and restoration of the tooth				
	structure; Ed. Mosby 2016. 6.Ecaterina Ionescu (coordinator): Manual pentru rezidențiat – stomatologie, Volumul I, Ed.Universitară "Carol Davila", 2021.				
Evaluation:	Written ExamPractical ExamActivity during the semester:				
Percent of the final grade:	70%	20%	10%		

Institu	tion fo	or gradua	ate and	Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca							
Facult	y			Dental	Medicine	:				
Domai	n of st	udy		Health						
Acade	mic de	gree		Dental	Medicine	in Engli	sh			
Level of	of cour	se		I and II	- License	and mas	sters			
Qualifi	ication	1		Doctor	of Dental	Medicin	ne			
Depart	tment			6 Medi	cal specia	lties				
Discipl	line			Derma	tology					
Cours	title			DERM	IATOVE	NEROL	OGY			
Respon	nsible	for lectu	re	Associa	ate Profe	sor Dr.	Ana Sori	ina Dănes	cu	
Respon	nsible	for pract	ical	Prof. D	r. Adrian	Baican				
activity	у			Assoc. Prof. Dr. Dănescu Ana Sorina						
				Assoc. Prof. Dr. Simona Şenilă						
				Assoc. Prof. Dr. Loredana Ungureanu						
				Lect. Dr. Daniela Vornicescu						
				Assist prof. Dr. Elisabeta Candrea						
				Assist. Prof. Dr. Alina Vasilovici						
				Assist prof. Cristian Papară						
The for	rmativ	ve catego	ry of	DD						
the discipline										
Compulsory discipline		Compulsory								
			hours/week		urs/semes	ster	r T		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment	
5	2	1	1	14	14	22	50	2	Е	

Pre-conditions (Preliminary conditions)	Histology, Histopathology, Physiology, Physiopathology, Semiology. Doing the anamnesis and physical exam.
Requisities for lectures and practical activities	NA

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	• To have the ability to communicate with the patient.				
competences	• To show preoccupation for professional improvement.				
	• To integrate dermatological knowledge into general medical one and into research activities.				
General	• To acquire knowledge about cutaneous pathology.				
objectives	• 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 methods	Power point presentations.						
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. Recognition of the main skin lesions and discussion of probable						
	diagnostic hypotheses.						
	2. Performing specific manipulations and explorations: cryotherapy,						

		oscopy, patch-test, prick-te	st, skin biopsy,			
	incisions, drainage, int	, , ,				
	3. Knowledge of the u	se of the main topical and	systemic treatments			
	used in dermatology.					
	4. Skin infections.					
	5. Urticaria.					
	6. Eczema.					
	7. Acne, rosacea, perio	oral dermatitis.				
	8. Psoriasis, Lichen pl	anus.				
	9. Autoimune bullous	dermatoses.				
	10. Sexually transmitte	ed diseases.				
	11. Benign and maligr	nant cutaneous tumors.				
	12. Diseases of the oral mucosa.					
	13. Dermatoses of the folds, face and scalp.					
	14. Participation in formulating the diagnosis and therapeutic approach.					
Bibliography	1. Richard B. Weller, Hamish J. A. Hunter, Margaret W. Mann.					
	Clinical Dermatology. Fifth Edition, ISBN-13: 978-0470659526.					
	2. Braun Falco, Dermatology, 3 rd edition.					
Evaluation:	Written ExamPractical ExamActivity during the					
			semester:			
Percent of the	60%	30%	10%			
final grade:	00 /0	50 /0	10 /0			

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgr	aduate	e studies		Cluj-Napoca					
Facult	t y			Dental	Medicine	;			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	rse		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	I Medici	ne		
Depar	tment			II- Con	servative	odontol	ogy		
Discip	line			Orthod	ontics				
Cours	title			MEDICAL PRACTICE					
Responsible for lecture			Lecturer Dr. Ghergie Mircea						
Respo activit	Responsible for practical			Lecture	Lecturer Dr. Ghergie Mircea				
The fo	The formative category of the discipline			DS					
Comp	Compulsory discipline		Compulsory						
			week	ho	urs/semes	ster			Type of
Year	Sem	C	LP/S	C	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	• Adequate dress code – lab coat.
activities	• 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 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	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.					

Percent of the final grade:	%	100%	%				
			semester:				
Evaluation:	Written Exam	Practical Exam	Activity during the				
	Cristian, Aparate	ortodontice, Universit	y Press, 2018.				
	*						
		rol Davila", Bucuresti,					
		a, Manual pentru rezid					
	Willey and Sons,						
	0.	5	clin. Essential Orthodontics,				
	Elsevier, 2015.						
	3. Martyn Cobourne	e Andrew DiBiase. Ha	ndbook of Orthodontics,				
	Sarver. Contemp	orary Orthodontics, 6th	n Edition, Elsevier, 2018.				
	2. William R. Proff	it, Henry W. Fields, Bi	ent Larson, David M.				

6TH YEAR

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"				
postgraduate studies				Cluj-Napoca					
Facult	ty			Dental	Medicine	e			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	e in Engl	ish		
Level	of cour	se		I and I	[- License	and ma	sters		
Quali	fication	l		Doctor	of Denta	l Medici	ne		
Depar	tment			1 Maxi	lloFacial	Surgery	and Radio	ology	
Discip	oline			Maxill	oFacial S	urgery a	nd Implant	ology	
Cours	s title			ORAL AND MAXILLO-FACIAL SURGERY					
Respo	nsible 1	for lectu	re	Vacancy position Prof. pos. 7					
Responsible for practical			Vacancy position Prof. pos. 7						
activit	activity			Lecture	er. Dr. Ar	mencea	Gabriel		
				Vacano	cy positio	n Assist.	Prof. pos.	46	
The fo	ormativ	ve catego	ory of	DS					
the dis	scipline)							
Compulsory discipline			Compulsory						
37	N G		s/week	ho	urs/semes	ster	T (1		Type of
Year	Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
6	1	2	3	28	42	30	100	4	E

Pre-conditions	General and head and neck anatomy. Physiology.
(Preliminary	Pathophysiology.General and Dental-maxillary apparatus
conditions)	semiology. Genetics. Internal Medicine. Pediatrics. Oral and
	Maxillo-facial Surgery. Orthodontics and dentofacial orthopedics.
	Occlusology.

Requisities for	 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. Amphitheater with projection systems.
lectures and	• Laboratories that offer proper conditions for the practical courses
practical	to 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, tormore management divides in the largement.
	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 malformations, the reconstruction of tissued and maxillo-facial surgery: craniocerebral and craniofacial malformations, complex 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	Oral presentations, Power-Point presentations.				
methods					
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, superior retroalveolia, 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. Anatomoclinical 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.						
	PRACTICAL ACTIVITIES						
Teaching	Power-point presentations. Interactive teaching.						
methods							
Practical	• Interactive teaching. Practical courses with the participation of the						
activity carried	students in the surgical treatment of oral and maxillo-facial						
out by students	pathologies. Case study, case presentations.						
Content	1. The evaluation of the patient with craniocerebral injuries.						
	2. The review of the lesions in a patient with craniocerebral 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.						
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	- Michael Ehrenfeld, Neal Futran, Paul N Manson and Joachim Prein,						
	Advanced Craniomaxillofacial Surgery. Tumor, Corrective Bone Surgery and Trauma, Thieme, 2020.						
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	 afecțiunilor chirun și Pedagogică, Bu Reyneke J.P. Es Publishing, 2003. Baker S.R.: Local 2021. Fonseca Raymond Elsevier; 2018. Hupp J.R., Ellis 	rgicale oro-maxilo-facia icurești, ISBN 978-973- issentials of Orthognatl flaps in Facial reconstru I J. Oral and maxillofa	nic Surgery. Quintessence action- 4th edition, Elsevier cial surgery. Third edition, Contemporary Oral and
Evaluation:	Written Exam	Practical Exam	Activity during the
			semester:
Percent of the	50%	50%	-
final grade:			

Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"					
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 II	- License	and mas	sters		
Quali	fication	l		Doctor	of Denta	I Medici	ne		
Depar	rtment			1 Maxi	lloFacial	Surgery	and Radi	ology	
Discip	oline			Maxillo	Facial Su	urgery an	nd Implan	tology	
Cours	title			DENTAL IMPLANTOLOGY					
Respo	nsible i	for lectu	re	Prof. Dr. Mihaela Băciut					
Respo	nsible i	for pract	ical	Lecturer Dr. Crişan Bogdan					
activit	activity			Assist.	Prof. Opi	riş Horia			
				Vacanc	Vacancy position Assist. Prof. pos. 41				
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline			Compulsory						
V	N G		/week	ho	urs/semes	ster	T-4-1	C 1'	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	3	28	42	30	100	4	Е

Pre-conditions (Preliminary	• Dental-maxillary apparatus anatomy. Dental-maxillary apparatus 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-maxillofacial 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 activ	ities • 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	 The course offers Sixth year students of the Dental Medicine Faculty
objectives	theoretical notions concerning oral implants. It provides knowledge of
objectives	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
	• Acquiring knowledge of diagnosis in oral and maxino-racial implantology.
	• Studying the implant's parts.

- Studying the implant's parts.Implant insertion stages.Bone augmentation and reconstruction.
- Dental implant maintenance.

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.							
	1							
	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. "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.							
	PRACTICAL ACTIVITIES							
Teaching	• Interactive teaching.							
methods								
Practical	• Interactive teaching. Practical courses that consist of presenting oral							
activity carried	implantology patients, dental cast study, x-ray study, patient							
out by students	consultation, assisting in surgical interventions.							
Content	1. Dental cast and x-ray study of the bone support in oral implantology.							
	2. Knowing how to use implantology kits.							
	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).							
	6. 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							
	Clarivate Analytics, Clinical Key (Elsevier).							

							
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	Sons Inc. 2012.						
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	and Maxillofacia	l Surgery, DOI:10.1002/9	781118704493, John				
	Wiley & Sons In	Wiley & Sons Inc. 2012.					
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	Disease and Trea	atment: Prevention–Diagne	osis-Management. ed.				
	1st Edition. Stutt	gart: Thieme; doi:10.1055	/b-006-149711, 2015.				
	5. Froum SJ. Denta	al Implant Complications:	Etiology, Prevention,				
	and Treatment, 2	and Treatment, 2, John Wiley & Sons Inc. 2016.					
	6. Resnik RR, Misc	. Resnik RR, Misch CE. Avoiding Complications in Oral					
	Implantology, Elsevier, Mosby, St. Louis, USA, 2017.						
	7. Resnik, Randolph R. Misch's Contemporary Implant Dentistry,						
	editia a 4-a, Editura Elsevier, 2020.						
	8. Galante JM, Rubio NA. Digital Dental Implantology. From						
	Treatment Planning to Guided Surgery, Springer, 2021.						
Evaluation:	Written Exam Practical Exam Activity during the						
			semester:				
Percent of the	33,3%	33,3%	33,4%				
final grade:							

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"							
postgraduate studies			Cluj-Napoca						
Faculty	y			Dental	Medicine				
Domai	n of st	udy		Health					
Acade	mic de	gree		Dental	Medicine	in Engli	ish		
Level o	of cour	se		I and II	- License	and mas	sters		
Qualifi	ication	l		Doctor	of Dental	Medici	ne		
Depart	tment			4 Prost	hetics and	l Dental	materials		
Discipl	line			Prosthe	etic Dentis	stry			
Cours	title			PROSTHETIC DENTISTRY					
Responsible for lecture		Lecturer Dr. Ispas Ana							
-		Lecturer Dr. Oana Almășan							
Responsible for practical		Lecturer Dr. Ispas Ana							
activity	y			Assist. Dr. Crăciun Antarinia					
				Assist. Dr. Manziuc Manuela					
The for	rmativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
		hours/week		ho	urs/semes	ester T		Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	3	1	42	14	44	100	4	Е

Pre-conditions (Preliminary conditions)	 Knowledge of the teeth morphology and dental arches. Knowledge of technology to achieve the removable partial prosthodontics. Occlusion.
Requisities for lectures	• Amphitheater with protection system.
and practical activities	• Dental offices with dental units.

Professional competences	• Capacity to demonstrate the 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 and for temporomandibular disorders.
Transversal competences	• Capacity to demonstrate skills and abilities of working in a team, developing professional and ethical values; good communication skills, abilities in problem solving and decision making.
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 and for patients with temporomandibular disorders.
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. Practicing the synthesis and documentation capacity. Performing clinical and paraclincal examinations for the TMD patient.

	LECTURES
Teaching methods	• Systematic and interactive presentation, oral presentation, power point presentation, problem solving;
Content	 Dijectives and indications of prosthodontic treatment in removable partial denture. Preliminary examination of the partially edentulous patient. TMD definition, history, terminology, epidemiology. Final clinical examination of the partially edentulous patient. Diagnosis and treatment plan. TMD aetiology.

	3. Treatment plan. Objectives. Phases: pre-prosthetic and prosthetic treatment plan. TMD symptomatology connected to the denal-maxillary
	apparatus.4. The acrylic removable partial denture. Components: saddles and artificial teeth, palate plate, wrought wire clasp, acrylic clasp).
	TMD symptomatology referred from the denal-maxillary apparatus.
	5. The removable partial denture (RPD). Components of RPD: saddles and artificial teeth. Examination of the patient with TMD.
	6. Components of the removable partial denture (RPD): mandibular and
	maxillary major connectors. Positive diagnosis in TMD.
	7. Components of the removable partial denture (RPD): direct retainer.
	Types and functions of direct retainers which are indicated for clinical
	situations. Differential diagnosis in TMD. 8. Cast clasp (circular clasps, Roach clasps, Ney clasps and particular
	clasps). Subtractive occlusal equilibration treatment.
	9. Precision and semi-precision attachments. Classification of the
	attachments. Minor connector.
	Additive - prosthodontic and orthodontic occlusal equilibration
	treatment.
	10. Biomechanics of the removal partial denture. Possible movements of
	the removable partial denture.
	General medication and physical therapy.
	11. Surveying the diagnostic cast. Principles of designing the metal
	framework. Treatment plan for Kennedy class I edentulous arches. Interocclusal devices - neuromuscular splints.
	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.
	Interocclusal devices - repositioning splints.
	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. Methodology for complex prosthodontics rehabilitation. Multidisciplinary treatments of patients with TMD.
	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. Case reports of patients with TMD.
	PRACTICAL ACTIVITIES
Teaching	• Systematic presentation, discussions of the clinical cases,
methods	demonstrations of the prosthetics procedures, establishing the
Practical	treatment plans. Knowledge seminars.Clinical examinations of TMJ and examination of occlusion;
activity carried	establishment of complete and complex diagnosis based on all
out by students	clinical and paraclinical investigations, differential diagnosis;

	occlusal balancing by addition on the model, assessment of joint
	spaces and the position of the joint disc, establishment of prosthetic
	treatment plans; practical determination of RC using previous jig and
	leaf-gauge; practical application and clinical adaptation of a
	deprogramming guide; occlusal balancing of a patient with
0 4 4	temporomandibular dysfunction.
Content	1. Examination of the TMD patient's masticatory, cervicofacial, and
	facial muscles.
	2. Examining TMJ and mandibular borderline movements using the
	Farrar diagram.
	3. Instrumental analysis: semi-adaptable articulator model assessment,
	digital occlusal evaluation.
	4. Imagistic examination: radiographic examination, cone beam
	computed tomography (CBCT), magnetic resonance imaging (MRI).
	5. Final positive diagnosis and differential diagnosis.
	6. Performing occlusal balancing procedures by subtraction on the cast.
	7. Performing occlusal balancing procedures by addition on the cast.
	8. The technological realization of a full coverage relaxation splint.
	9. The technological realization of an anterior deprogramming splint.
	10. Use of anterior jig and leaf-gauge to determine centric relation.
	11. Applying and adapting a deprogramming splint.
	12. Applying and adapting a full coverage relaxation splint.
	13. Occlusal balancing of a patient with TMD.
	14. Case report.
Bibliography	1. Allan B. Carr David T. Brown. McCracken's removable partial
	prosthodontics, 2016.
	2. Olcay Sakar. Removable partial dentures. Springer Cham,
	Switerland, 2016.
	3. Chang Ting-Ling, Daniela Orellana, and John Beumer.
	Kratochvil's Fundamentals of Removable Partial Dentures.
	Quintessence Publishing, 2019.
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	5. LASCU LIANA MARIA, "Les bases théoriques de l'étude du
	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
	Hațieganu" Cluj- Napoca, 2019.
	6. LASCU LIANA MARIA, "Les bases théoriques de l'étude du
	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 Hațieganu" Cluj- Napoca, 2019.
	7. BUDURU SMARANDA. Analiza ocluzală. Clinic versus

	8. KLINEBERG Dentistry and Prosthe 9. OKESON JE	caStar, Cluj-Napoca, 20 G IVEN. Functional Octo odontics. Elsevier Mosb FFREY P. Managemention, Elsevier Mosby, 20	clusion in Restorative y, 2016. nt of Temporomandibular		
Evaluation:	Written ExamPractical ExamActivity during the semester:				
Percent of the final grade:	50% 40% 10%				

Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hațieganu"							
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	l		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						
Respo	nsible	for lectu	re	Assoc. Prof. Dr. Dana Feștilă					
Responsible for practical		Assoc. Prof. Dr. Dana Feștilă							
activit	y			Lecturer Dr. Mircea Ghergie					
				Assist. Dr. Olimpia Bunta					
				Asist. Drd. Suciu Tudor					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline		Compulsory							
••			hours/week	ho	urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	1	28	14	58	100	4	E

Pre-conditions (Preliminary conditions)	• Notions of orthodontics and dental radiology.
Requisities for lectures and practical activities	 Amphitheater with a projection system. 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.
	• 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. 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	- This wreage of denits maximaly anomalies and possibilities of deathert.
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. 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, action.					
	6. Balters Bionator: description, indications, action.					
	Frankel appliances: description, indications, action.					
	7. Twin Block : description, indications, action. Clear aligner/					
	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.					
<i>J</i>	• 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.					
Content	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,					
	Greg J. Huang.					
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	Elsevier, 2016.					
	3. William R. Proffit, Henry W. Fields, Brent Larson, David M.					
	Sarver. Contemporary Orthodontics, 6th Edition, Elsevier, 2018					
	4. Martyn Cobourne Andrew DiBiase. Handbook of Orthodontics,					
	Elsevier, 2015.					
	5. Thilander Birgit, Bondemark Lars Bjerklin. Essential Orthodontics,					

	Willey and Sons, 2017.				
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	Universitara "Carol Davila", Bucuresti, 2021.				
	7. 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 Hațieganu"						
postgraduate studies			Cluj-Napoca						
Facult	t y			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discipline			Oral Rehabilitation						
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. 45 - vacancy					
The fo	The formative category of			DS					
the discipline									
Compulsory discipline			Compulsory						
V	hours/week		ho	urs/semes	ter	T-(-1	C 1''	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	1	28	14	33	75	3	E

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/		
practical activities	Online 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. 				
• Integration of the concepts assimilated in Ododntology, Endodontics,				
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.				
• Acquiring knowledge about complex oral rehabilitation of pacifications.				
• The peculiarities of dental treatment in patients with general condition.				
• The complex and interdisciplinary approach of the adult patient with				
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				
• 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.			
	PRACTICAL ACTIVITIES			
Teaching	• Interactive teaching power-point presentations. Practical			
methods	demonstration. The conception and writing of the medical			
	prescription in the dental office for the patient with oral pathology in the context of general ailments			
Practical	the context of general ailments.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.			
Content	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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	-	etween Respiratory and P				
	1	Control Study. J Int Soc P				
	2018 Nov-Dec; 8(6): 560–564.					
		erstin Cederlund, Barbro	Dahlén, Ann-Sofie			
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	U 1	t Panel Report 3: Guidelin	6			
	U	Asthma. Section 2, Definit	112 65			
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	albicans counts in asthmatic adult patients taking anti-asthmatic					
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	Apr; 8(4): 1308–1312. doi: 10.4103/jfmpc.jfmpc_97_19.					
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 Hațieganu"
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	ORAL PATHOLOGY
Responsible for lecture	Assoc. Prof. Dr. Radu Chisnoiu
Responsible for practical	Asist. Dr. Mara Rusnac
activity	Asist. Drd. Mihai Merfea

			Asist. I	Drd. Anto	nia Boca	l			
The formative category of			DS						
the dis	scipline								
Comp	Compulsory discipline			Compu	lsory				
* 7			/week	hours/semester			Type of		
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	1	28	14	33	75	3	Е

Pre-conditions	• The anatomy of head and neck notions.
	• The anatomy of head and heek notions.
(Preliminary	
conditions)	
Requisities for	 Amphiteater with projection system
lectures and	• Students will not be present at practical activities with
practical activities	 bitations will not be present at practical activities will 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 course. 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	• The ability to use the theoretical and practical notions of oral pathology
competences	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	• 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	• The knowledge of normal morphology and histological structure of the
objectives	oral mucosa, the defense mechanisms of the oral cavity, the
5	basic lesions of the oral mucosa, the normal physiological variations
	and oral manifestations of systemic diseases.
C • P	
Specific	• To acquire the knowledge of normal oral mucosa aspect and
objectives	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.
I	

	LECTURES			
Teaching	Lecture, systematic exposition, interactive; oral expositions,			
methods	presentations, Power-Point.			
Content	1. 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.			
	2. The patient examination and the oral pathology diagnosis.			
	3. 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
T b f	
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:
	- elementary lesions,
	- diagnostic steps in oral pathology,
	- ulcerative, vesicular and bullous lesions of the oral cavity.

	Exercises for the record	gnition and description o	f the lesions
			atinization. Leukoplakia.
		pus erythematosus. Clin	-
	-	osis. Patient monitoring.	ieur uspeets. Diugnosis
		Clinical aspects. Elemen	ts of diagnosis and
	differential diagnosis.	Chinear aspects. Elemen	as of diagnosis and
	0	s – diagnosis and differe	ntial diagnosis
	e	plakia). Speckled leukor	
			e verrucouss leukoplakia.
	1 8		hyperplastic candidosis.
		sis. Chronic actinic cheil	
	leukoplakia.	sis. Chi onic actime chen	ius. Sypinite
	•	is in some systemic and	infactious diseases
		dentist's role in patient n	
	treatment.	ientist s fore in patient n	ionitoring and then
		topic and systemic drug	treatment Clinical
	aspects. Diagnosis. Di		ireatilient. Chinear
		nic mycoses. Xerostomi	a Clinical aspects
	Diagnosis. Differentia	•	a. Chinear aspects.
		Glossodynia. Clinical as	nects
	U	2	lesions in HIV/SIDA. The
			ention of HIV infection in
	dental offices.	oring patients. The preve	
Bibliography		ru Radu Marcel Chisnoi	u, Andrea Maria Chisnoiu
Dibilography		-	ology, Editura Medicală
		ı Hațieganu Cluj Napoca	
			of oral pathology, Editura
		sitară Iuliu Hațieganu Cl	
		ru – Practical Guide of O	
	Medicală Univers		
	4. Hațieganu Cluj N	Japoca, 2017.	
	, 2 3	1 ·	of Oral Patholy. Editura
	Medicală Univers	sitară Iuliu Hațieganu Cl	uj Napoca, 2017.
		, .	cactica in patologia orala,
			ganu Cluj Napoca , 2016.
			n – Ghid de diagnostic si
	tratament al afect	iunilor din sfera patolog	iei orale, Editura Medicală
	Universitară Iuliu	ı Hațieganu Cluj Napoca	, 2015.
	8. Rotaru Doina Iu	ılia, Mureşanu Liviu, 1	Delean Ada - "Patologia
	mucoasei orale",	, Editura Medicală Uni	versitară Iuliu Hațieganu
	Cluj Napoca, 201		
Evaluation:	Written Exam	Practical Exam	Activity during the
		1	annactor
			semester:
Percent of the final grade:	50%	25%	<u>25%</u>

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"				
postgr	raduate	e studies		Cluj-Na	Cluj-Napoca				
Facult	ty			Dental	Medicine	;			
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	ish		
Level	of cour	se		I and II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	l Medici	ne		
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Oral He	ealth				
Cours title			COMMUNITY AND ORAL HEALTH						
Responsible for lecture			Prof. Dr. Ondine Lucaciu						
Respo	nsible f	for pract	ical	As. Dr.	As. Dr. Nausica Petrescu				
activit	y			As. Dr.	Adina Si	rbu			
				As. V.	46				
		ve catego	ry of	DS					
the dis	the discipline								
Compulsory discipline		Compulsory							
V	C	hours/week		ho	urs/semes	ster			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	2	1	28	14	33	75	3	E

Pre-conditions	•	Knowledge of dental medicine, public health,
(Preliminary conditions)		epidemiology.
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. Pathfinder surveys.								
	5. Organizing the survey. Preparing a survey protocol.								
	6. Organizing the survey. Obtaining approval from the authorities.								
	7. Organizing the survey. Budgeting.								

	8. Organizing the sur	rvey. Scheduling.					
	9. Reliability and validity of data.						
	10. Training and calib	orating examiners.					
	11. Implementing the	survey. General preparat	tion.				
	12. Implementing the	survey. General preparat	tion.				
	13. Preparation of sur	vey reports.					
	14. Preparation of sur	vey 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	80% % 20%						
final grade:							

Institu	ution for graduate and			Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca											
Facult	ty			Dental	Medicine									
Doma	in of st	udy		Health										
Acade	emic 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	rtment			2 Cons	ervative (Odontolo	gy							
Discip	oline			Pedodo	ontics									
Cours title			PEDODONTICS											
Respo	nsible	for lectu	re	Şef Lucr.Dr. Meda-Romana Simu										
Responsible for practical activity			Şef Lucr.Dr. Meda-Romana Simu Asist.Univ. Dr. Raluca Diana Ghiran Asist. Univ. Dr. Irina Lupşe											
The formative category of the discipline			DS											
Compulsory discipline			Compulsory											
Year	Sem	hours C	/week LP/S			Type of Assessment								
6	1	2	1	28	14	33	75	3	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.

D A 1 -	T
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.
	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							
Teaching	Practical demonstration, interactive dialogue.							
methods								
Practical	• Performing complex clinical examinations, Radiographies and study							
activity carried	models analysis, dental eruption process assessment, Diagnosis of							
out by students	dental anomalies, Development of positive / differential diagnosis,							
	Perform loco regional anaesthesia for children, Applying methods of							
	dental caries prophylaxis according to dentition and dentition,							
	Staging treatment according to dentition, Performing permanent							
	tooth extraction manoeuvres, Evaluation of the possibilities of							
	curative and prophylactic treatment in children acute and chronic							
	general disorders.							
Content	1. Complex clinical examination.							
	2. Pedodontic complex diagnosis.							
	3. Individualized treatment plan, emergency treatment.							
	4. Complementary examinations.							
	5. Diagnosis and therapeutic attitude in temporary teeth trauma.							
	6. Diagnosis and therapeutic attitude in young permanent teeth trauma.							
	7. Clinical and complementary examinations in periodontal disease in							
	children.							
	8. Establishing the therapeutic attitude in children periodontitis.							
	9. Clinical diagnosis of mucosal diseases in children.							
	10. Anesthesia in children and young patients.							
	11. Extraction of temporary teeth.							
	12. Extraction of permanent teeth.							
	13. Prosthetic treatment in children and young patients.							
	14. Particular features of pedodontic treatment in children with general							
	medical problems.							

Bibliography	 adolescent / Edita Jones (2022). KOCH, G., POU (2017). Pediatric SOXMAN JA, ea dentistry. John W MICHAELA I Medicina Denta Hatieganu", 2016 ARTHUR NOW Dentistry: Infancy through Adol MOURSI AM, pediatric dentistry DECLAN T. MI in Dentistry: Orth CAMERON AC, E-Book. Elsevier 	AND AVERY's dentist ed by: Jeffrey A. Dean; as JLSEN, S., ESPELID, I dentistry: a clinical appro ditor. Handbook of clinica 'iley & Sons, Incorporated MESAROS, ALEXAN ra Pediatrica, Ed. Medi 5, ISBN 978-973-693-724 WAK, JOHN R. CHI lescence, 6e Hardcover 20 TRUESDALE AL, edi y. John Wiley & Sons; 20 LLETT, PETER DAY. C nodontics and Paediatric D , WIDMER RP. Handboo Health Sciences; 2021 Se DLLA. Guide d'odontologi	., HAUBEK, D. (Eds.). ach. John Wiley & Sons. al techniques in pediatric l; 2015 Feb 18. IDRINA MUNTEAN, cala Universitara" Iuliu -8. RISTENSEN. Pediatric 018. tors. Clinical cases in 20 Feb 19. Clinical Problem Solving pentistry. 2016. bk of Pediatric Dentistry pp 1.
Evaluation:	Written Exam	Practical Exam	Activity during the semester:
Percent of the	50 %	30%	20%
final grade:			-070

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-N	apoca			-		
Facult	y			Dental	Medicine				
Domai	i <mark>n of st</mark>	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	Medici	ne		
Depar	Department			1 Maxi	lloFacial	Surgery	and Radi	ology	
Discip	Discipline			MaxilloFacial Surgery and Implantology					
Cours	Cours title				ORAL AND MAXILLO-FACAL SURGERY				
Respo	nsible	for lectu	re	Assoc. Prof. Dr. Cristian Dinu					
Respo	nsible	for pract	tical	Vacancy position Prof. pos. 8					
activit	у			Lecturer. Dr. Armencea Gabriel					
				Vacancy position Assist. Prof. pos. 42					
The fo	rmativ	ve catego	ry of	DS					
the discipline									
Comp	Compulsory discipline			Compulsory					
	0	hours/w		ho	urs/semes	ter			Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment

6	2	1	3	14	42	44	100	4	F
0	4	1	5	1-	74		100	T	Ъ
-		n :		a 1 1		ax 1 11			

Pre-conditions (Preliminary conditions)	 Head and neck anatomy. Physiology. Pathophysiology. Pathology. Dental radiology. Dental-maxillary apparatus anatomy and 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
practical activities	courses to unfold.
	• 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 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 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 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 objectives	 Assimilating knowledge of oral and maxillofacial pathology. 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					
memous	Oral presentations, Power-Point presentations.				
Content	1. The anatomy and physiopathology of salivary glands. Notions of				
content	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 				
methous	students in the surgical treatment of oral and maxillo-facial				
	pathologies.				
Practical					
activity carried	Case study, case presentations.				
•					
out by students	1. Improving the knowledge on the slinical examination of the metions				
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.				
	3. Improving the knowledge on the clinical examination of the patients				

Percent of the final grade:	50 /0	50 /0	-			
Democrit of the	50%	50%	semester:			
Evaluation:	Written Exam	Practical Exam	Activity during the			
	edition, Elsevier; 201	8.				
	6. Fonseca Raymond J. Oral and maxillofacial surgery. Third					
	Maxillofacial Surgery. 7th ed. Elsevier; Philadelphia, 2019.					
	Maxillofacial Surgery. Wiley Blackwell, 2015. 5. Hupp J.R., Ellis E., Tucker M.R. Contemporary Oral and					
	4. Haggerty C.J., Laughlin R.M. Atlas of Operative Oral and					
		Qmed Publishing, Buc				
			irurgie oro-maxilo-facială"			
	973-30-3136		,, 2000 cgu, 1021 () / 0			
	Managementul afecțiunilor chirurgicale oro-maxilo-faciale, 2012, Editura Didactică și Pedagogică, București, ISBN 978-					
	2. Al. Bucur, Gr. Băciuț, M. Surpățeanu, sub redacția,					
	Medicală Universitară "Iuliu Hațieganu" Cluj- Napoca, 2003.					
	CHIRURGIE MAXILO-FACIALĂ, Vol. I si Vol. II, Editura					
Bibliography	 14. Symptomatic and secondary facial neuralgias – case presentation. 1. Alexandru Rotaru, Grigore Băciuţ, Horaţiu Rotaru, 					
		minal neuralgia – case j secondary facial neural				
	maxillo-facial area.	minal namelais	magantation			
	1 2	vestigations in patients	with pain in the oro-			
	area.	1 1				
		of the patient with pain i	n the oro-maxillo-facial			
	salivary glands.	ind case presentation in	chronic diseases of the			
	salivary glands.	and case presentation in	chronic diseases of the			
		d case presentation in a	cute diseases of the			
	8. Methods of exploring					
	7. The evaluation of the	ne patient with salivary	gland diseases.			
	6. Improving the abilities concerning hygiene rules, asepsis and antisepsis in the ambulatory care and for internal patients in the oro- maxillo-facial surgery clinic.					
		ical results with the para				
		in the clinical observat				
	with oro-maxillo-facia	al diseases.	-			
			amination of the patients			
	with oro-maxillo-facia	al diseases.				

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						
Quali	fication	1		Doctor of Dental Medicine					
Depar	tment			3 Oral	Rehabilita	ation			
Discip	line			Oral He	ealth				
Cours	title			PROF	ESSIONA	AL ORG	JANIZA	FION AN	D
				LEGIS	SLATION	N			
Responsible for lecture			Lectur	er Dr. M	ester Al	exandru			
Respo	nsible	for pract	ical	Lecturer Dr Mester Alexandru					
activit	y			Lecturer vacant 27					
	~		Associate prof. Vacant 10						
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline	9							
Compulsory discipline		Compulsory							
	hours/week		ho	urs/semes	ster		~	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	2	2	28	28	44	100	4	E

Pre-conditions (Preliminary conditions)	• Current knowledge of the dental field.
Requisities for lectures and practical activities	 To understand the legislative framework. To acquire principles of dental office organization. Recognize malpractice in dentistry. Ability to make responsible decisions. To acquire basic principles of dental office organization. To understand the legislative framework. Risk management in dentistry.

Professional competences	 Legal concepts in dentistry. The regulation of dental practice. Standard of care. Dental risk management
Transversal	Application of legislative framework in dental practice.
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 methods	Oral presentation			
Content	1. Introduction into Professional Organization, Legislation and			
	Malpractice. Competences of dental practitioners.			
	2. The regulation of dentistry.			
	3. Rights and Obligations. Legal Responsibilities of Patients and Dental			
	Practitioners.			
	4. Informed Consent.			
	5. General Data Protection Regulation in Dentistry.			
	6. Dental Clinic Guidelines Regulations.			
	7. Dental Malpractice – general data, types of malpractice.			
	8. Malpractice in odontology and endodontics.			
	9. Malpractice in prosthodontics.			
	10. Malpractice in periodontology.			
	11. Malpractice in implantology.			
	12. Malpractice in oral surgery.			
	13. Malpractice in orthodontics.			
	14. Malpractice in multidisciplinary approach.			
	PRACTICAL ACTIVITIES			
Teaching	Practical laboratories.			
methods				
Practical	Case presentation and discussion.			
activity carried				
out by students				
Content	1. Legislative framework and dental office.			
	2. Dental office principles.			
	3. Administration of a dental office.			
	4. Allocation of human resources in dental office.			
	5. Quality management in dental office.			
	6. Facilities and equipment necessary in a dental office.			
	7. Hazard control in dental office.			
	8. Radiation control in dental office.			
	9. Infection control in dental office.			
	10. Environment of care in dental office.			
	11. Dental clinic protocols.			
	12. Dental health records .			
	13. Economic profits of the dental office.			
	14. Corporate dentistry.			
Bibliography	1. Koff S. The dental team in the European Union. Springer. 2021.			
	2. FDI World Dental Federation. Dental Ethics Manual 2. Quintessence			
	Publishing. 2018.			

	 Principles of ethics and code of Professional Conduct. American Dental Association. 2018. Ududec et al. Human Rights in patient Care. Bucharest. 2015. Graskemper J. Professional responsibility in dentistry. Wiley- 					
	Blackwell. 2011. 6. Cruz L. Legal Asp	ects of General Dental Pra	ctice. Churchill			
	Livingstone. 2006.					
	7. Lamboden Paul. D Oxford. 2005.	ental Law and Ethics. Rad	cliffe Medical Press:			
	8. Polack B. Law and risk management in dental practice.					
	Quintessence. 2002. 9. Ozar D, Sokol D. Dental Ethics at Chairside: Professional Principles					
	and Practical Applications. 2nd Ed. Washington, DC: Georgetown					
	University Press. 2002. 10. Course support.					
Evaluation:	Written Exam Practical Exam Activity during the					
			semester:			
Percent of the	80%	%	20%			
final grade:						

Institu	Institution for graduate and		Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"			
postgraduate studies			Cluj-Napoca								
Facult	у			Dental	Medicine						
Domai	n of st	udy		Health							
Acade	mic de	gree		Dental	Medicine	in Engli	sh				
Level of	of cour	rse		I and II	- License	and mas	sters				
Qualifi	ication	1		Doctor	of Dental	Medici	ne				
Depart	tment			3 Oral	Rehabilita	ation					
Discip	line			Oral Re	ehabilitati	on					
Cours	title			PHYSIOTHERAPY IN DENTISTRY							
Respo	nsible	for lectu	re	Assoc. Prof. 9 - vacancy							
Responsible for practical		Assoc. Prof. 9 - vacancy									
activity		Lecturer 25 - vacancy									
		Lecturer 26 - vacancy									
				Assist.4	Assist.44 - vacancy						
The for	rmativ	ve catego	ry of	DS							
the discipline											
Compulsory discipline		Compulsory									
37	ar Sem			hours	/week	ho	urs/semes	ter	T (1	<i>a</i> 11	Type of
Year		C	LP/S	C	LP/S	SI	Total	Credits	Assessment		
6	2	1	2	14	28	33	75	3	Е		

Pre-conditions	• Knowledge of dental medicine, physiology, biophysics.
(Preliminary	

conditions)	
Requisities for	 Amphitheater with projection system/ Online system.
lectures and	• Dental offices with specific facilities for practical activities/
practical activities	Online system.

Professional	• The ability to use the specialized terminology properly and					
competences	contextually.					
-	• 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	• Acquiring knowledge about alternative methods of classical dental					
objectives	medicine - physiotherapeutic methods.					
Specific	• Acquiring the concepts of general physiotherapy.					
objectives	• 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 methods	Lecture, systematic interactive presentation.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.							
	PRACTICAL ACTIVITIES							
Teaching • Power-point presentation, interactive presentation.								
methods								
Practical	• Power-point presentation, practice the working equipment settings							
activity carried	as directed, applications of different procedures, exercise							
out by students	ergonomic working positions with four hands in spaces with							
out sy students	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.							
00110110	2. Specific setting of the working parameters of the physiotherapy							
	apparatus.							
	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							
	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,							
ZionoBrupity	Bordea Roxana, Petrescu Nausica, Aghiorghiesei Ovidiu, Câmpian							
	Radu Septimiu. Fizioterapia.Aplicații în medicina dentară.Editura							
	Scoala Ardeleană, Cluj-Napoca 2020.							
	 Pop Liviu. Curs de balneofizioterapie și recuperare medicală. Cluj 							
	Napoca, 1994.							

Percent of the final grade:	80 %							
Evaluation:	Written Exam							
	patologia medicinii dentare, Curs și Lucrări Practice, București 2006.							
		a Tache .Fizioterapia-pr						
	1	Medicală Universitara, 2	1, 2					
		Patru Simona Hidroter	rmoterapie și balneologie					
	9. Stroia Victoria. E	Balneologie și recuperar	e medicală. Constanța,					
	București; Printe	ch, 1999.	-					
	-	Balneo-fizioterapie și rec	superare medicală					
	7. El Bsat Ruxandra Semne, 2002.	a.rizioterapie pentru kin	ietoterapeuți. Bucuresti;					
	2004. 7 El Paot Buyondr	a Fiziatarania nantus lein	otataranauti Duaurasti					
	, 1	tului locomotor. Bucure	ști; Editura Medicală,					
		io-kinetoterapia și recup						
	Editura Medicala		1					
		ei, Teodoreanu Elena. Fi	zioterapie Bucuresti:					
	4. Stratulat Sorin Ic 2005.	oan .Recuperarea medica	ală Iasi ; Performantica,					
	Hațieganu", 200							
	mișcare Cluj Na	apoca; Editura Medicală	e profilaxie și terapie prin Universitară "Iuliu					

Institution for grad	duate and	University of Medicine a	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studi	es	Cluj-Napoca						
Faculty		Dental Medicine						
Domain of study		Health						
Academic degree		Dental Medicine in English						
Level of course		I and II- License and mas	sters					
Qualification		Doctor of Dental Medicin	ne					
Department		3 Oral Rehabilitation						
Discipline		Oral Health						
Cours title		MEDICAL DEONTOLOGY. BIOETHICS						
Responsible for lec	ture	Alexandru Meșter DMD PhD MSC MPH Lecturer						
Responsible for practivity	actical	Alexandru Meşter DMD PhD MSC MPH Lecturer Assisting Professor Dr Adina Sirbu Assisting Professor 46-Vacant						
The formative cate the discipline	egory of	DC						
Compulsory discip	line	Compulsory						
Year Sem ho	urs/week	hours/semester	Total	Credits	Type of			

		С	LP/S	С	LP/S	SI			Assessment
6	2	1	1	14	14	22	50	2	E

Pre-conditions (Preliminary conditions)	 Current knowledge of the dental field. General concepts of deontology and bioethics in dentistry.
Requisities for lectures and practical activities	 Recognize the components of ethical decision-making process. To understand the legislative framework. Risk management in dental practice. Identify current challenges in regards to the relation between dentist, patient and dental team. The impact of policies in dental office.

D	A mala main tailer of other and any footientime in the 1 of 1 of
Professional	• Apply principles of ethics and professionalism in the dental office.
competences	Recognize ethical conflicts that occur in dentistry.
	• Assume the responsibility for dental practitioners based on accepted
	standards of care.
Transversal	Apply of theoretical concepts to practical work.
competences	• Establish an interdisciplinary correlation in the studied fields.
	• Use evidence-based medicine to improve dental healthcare
	performance in regards to the quality of care and the patient
	management.
General	Ethics for dental practitioners.
objectives	Dental practice and jurisprudence.
	Standards of dental practice.
	Social issues.
	Patient management.
Specific	• Evaluation of dental ethics from inception until present.
objectives	• Comparison of dental ethics and jurisprudence.
	• Understand the concepts of ethical vs unethical behavior.
	Application of code of ethics
1	

	LECTURES							
Teaching methods	Oral presentation.							
Content	1. Deontology and Bioethics: Foundation and theories.							
	2. Values and morals of dental practitioners.							
	3. Professional obligations and responsibilities.							
	4. Code of ethics.							
	5. Standard of care and scope of practice.							
	6. Ethical Decision-Making.							
	7. Communication and social skills.							
	8. The relationship of dentist, patient, dental team and external							

	collaborators.							
	9. Confidentiality.							
	10. The impact of business environment in dental practice.							
	11. Advertising and social media.							
	12. Research in dentistry.							
	13. Dental practice in the community.							
	14. Ethical dilemmas: pitfalls and solutions.							
PRACTICAL AC								
Teaching	Practical laboratories.							
methods								
Practical	Application of ethical decision-making process to resolve different							
activity carried	ethical dilemma present in the dental office.							
out by students								
Content	1. Aims and ethical principles applied in dentistry.							
	2. The social impact of dentistry.							
	3. The professional responsibility of dental practitioners.							
	4. Moral capacity of dental practitioners.							
	5. Disclosure and misinterpretation in dentistry.							
	6. Dental risk management.							
	7. Ethics and law.							
	8. Ethical traps and pitfalls in dentistry business.							
	9. Access to dental care.							
	10. Patient communication.							
	11. Personal conduct and behavior.							
	12. Working with third parties.							
	13. Dental ethics in Romania and worldwide.							
	14. Ethical issues.							
Bibliography	1. Koff S. The dental team in the European Union. Springer. 2021.							
	2. FDI World Dental Federation. Dental Ethics Manual 2. Quintessence							
	Publishing. 2018.							
	3. Principles of ethics and code of Professional Conduct. American							
	Dental Association. 2018.							
	4. Ududec et al. Human Rights in patient Care. Bucharest. 2015.							
	5. Graskemper J. Professional responsibility in dentistry. Wiley-							
	Blackwell. 2011.							
	6. Cruz L. Legal Aspects of General Dental Practice. Churchill							
	Livingstone. 2006.							
	7. Lamboden Paul. Dental Law and Ethics. Radcliffe Medical Press:							
	Oxford. 2005.							
	8. Polack B. Law and risk management in dental practice.							
	Quintessence. 2002.							
	9. Ozar D, Sokol D. Dental Ethics at Chairside: Professional Principles							
	and Practical Applications. 2nd Ed. Washington, DC: Georgetown							
	University Press. 2002.							
	10. Course support.							
	To compensation							

Evaluation:	Written Exam	Practical Exam	Activity during the semester:
Percent of the final grade:	80%	%	20%

Institution for graduate and				Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"
postgraduate studies				Cluj-Napoca					
Facult	t y			Dental	Medicine				
Domain of study				Health					
Acade	emic 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			2 Cons	ervative (Odontolo	gy		
Discip	line			Pedodo	ontics				
Cours	title			PEDODONTICS - SP					
Respo	nsible i	for lectu	re	Lecturer Dr. Meda-Romana Simu					
Respo	nsible	for pract	ical	Lecturer Dr. Meda-Romana Simu					
activit	y			Assist. Dr. Raluca Diana Ghiran					
				Assist. Drd. Irina Lupșe					
				Vacant asist. poz 48					
The fo	ormativ	ve catego	ry of	DS					
the dis	scipline)							
Comp	Compulsory discipline		Compulsory						
37	G	hours/week		ho	urs/semes	ter			Type of
Year Sem	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	-	3	-	42	33	75	3	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 objectives	• Particularities of clinical and complementary examination in children 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.	

PRACTICAL ACTIVITIES		
Teaching	Practical demonstration, interactive dialogue.	
methods		
Practical	• Performing complex clinical examinations, Radiographies and study	
activity carried	models analysis, dental eruption process assessment, Diagnosis of	
out by students	dental anomalies, Development of positive / differential diagnosis,	
	Perform loco regional anaesthesia for children, Applying methods of	
	dental caries prophylaxis according to dentition and dentition.	
	Staging treatment according to dentition. Performing permanent	
	tooth extraction manoeuvres. Evaluation of the possibilities of	
	curative and prophylactic treatment in children acute and chronic	
	general disorders.	
Content	1. Diagnosis and therapeutic attitude in temporary teeth trauma.	
	2. Diagnosis and therapeutic attitude in young permanent teeth trauma.	
	3. Clinical and complementary examinations and treatment of oral	
	mucosa disease in children.	
	4. Clinical and complementary examinations and therapeutic attitude	
	for periodontal disease in children.	
	5. The therapeutic approach of children and adolescents with	
	disabilities.	
	6. Particular features of pedodontic treatment in children with general	
	medical problems.	
	7.Anesthesia in children and young patients.	
	8. Medication in children and adolescents.	
	9. Extraction of temporary and permanent teeth: indication, techniques.	

	10 5 1 1				
		ent in children and young			
		atment plan, emergency c			
	<u> </u>	eneral emergencies in the	*		
	13. Prophylaxis of dento-maxillary anomalies in children and				
	adolescents.				
		s of pedodontic treatment	in children with labio-		
	maxillo-palatine cleft	-			
Bibliography		D AND AVERY's dentist	5		
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	 SOXMAN JA 	A, editor. Handbook of cli	nical techniques in		
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	MICHAELA	MESAROS, ALEXAND	RINA MUNTEAN,		
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	M. MULLEI	R-BOLLA. Guide d'odont	ologie pediatrique, 2018.		
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the	50 %	30%	20%		
final grade:					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	PUBLIC HEALTH IN DENTISTRY – Practical
	activity

Responsible for lecture									
Responsible for practical activity			Lecturer Alexandru Mester As.dr. Ovidiu Aghiorghiesei						
				As.dr. A	Adina Sir	bu			
The fo	The formative category of			DS	DS				
the dis	the discipline								
Comp	ulsory	disciplin	e	Compu	lsory				
	7	hours	/week	ho	urs/semes	ter	— 1	a i	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	12	-	3	-	42	33	75	3	Е

Pre-conditions (Preliminary conditions)	Knowledge of dental medicine, public health, midaminloagu
Requisities for lectures	epidemiology.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.

	PRACTI	CAL ACTIVITIES						
Teaching	 PowerPoint presentations, interactive teaching. 							
methods								
Practical	 Essay presentation 	on the topic.						
activity carried								
out by students								
Content		health status. Standard fo						
	2. Assessment of oral	health status. Standard for	orms.					
	3. Assessment of oral	health status. Standard co	odes.					
	4. Assessment of oral	health status. Standard co	odes.					
	5. Clinical examination	on. Dentition status.						
	6.Clinical examinatio	on. Periodontal status:						
		on. Community Periodont	al Index, (CPI) modified.					
	8. Clinical examination. Loss of attachment.							
	9. Clinical examination. Enamel fluorosis.							
	10. Clinical examination. Dental erosion.							
	11. Clinical examination. Traumatic dental injuries.							
	12.Clinical examination. Oral mucosal lesions. Denture status							
	13. Clinical examination. Oral mucosal lesions. Denture status.							
	14. Preparation of survey reports.							
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	2. WHO. International Standards for Clinical Trial Registries.							
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Evaluation:	Written Exam	Practical Exam	Activity during the					
		semester:						
Percent of the		80% 20%						
final grade:								

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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 Rehabilitation
Cours title	ORAL REHABILITATION – SP
Responsible for lecture	Lecturer dr. Anida Maria Băbțan
Responsible for practical	Assist. Dr. Andreea Simona Pop
activity	Assist. Dr. Claudia Nicoleta Feurdean
	Assist. 45 - vacancy
The formative category of	DS
the discipline	

Compulsory discipline		Compu	Compulsory						
Year	Sem	hours	/week	ho	urs/semes		Total	Credits	Type of
I Cal		C	LP/S	C	LP/S	SI	Totai	Cicuits	Assessment
6	12	-	2.5	-	35	40	75	3	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/	
practical activities	Online system.	

Professional	• Unaveladas annuamistian valated to nationt's converter and
	• Knowledge appropriation related to patient's complex oral
competences	rehabilitation. Patients' holistic approach in the dental medicine
	office.
	• The ability to decide on the opportunity of a dental procedure 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.
	• Prevention of transmission of infectious diseases in the dental
	office.
Transversal	• Integration of the concepts assimilated in Odontology,
competences	Endodontics, Prosthetics, Periodontology, Maxillofacial Surgery,
····· r · · · · · ·	Implantology, Orthodontics, Internal Medicine, Pharmacology,
	Pathophysiology in the context of complex oral rehabilitation.
	• Theoretical notions in practical activity implementation.
	• Interdisciplinary associations in the studied fields assessment.
General	• Particularities of dental treatment in patients with associated
objectives	pathologies.
Specific	• Specific patient's (with associated diseases) assessment in order to
objectives	treat the oral cavity pathologies.
	• Dental treatments timing assessment in patients with general
	disorders assessment.
	• Specific patient's (with associated diseases) assessment, optimal
	time and post-interventional response and follow-up – related.
	• Complex rehabilitation of dento-maxillary system functions
	pathologies, dento-periodontal structures supported.

	PRACTICAL ACTIVITIES
Teaching methods	• Power-point presentations - clinical cases- based associated to interactive discussions. Practical demonstrations. Practical work: clinical and paraclinical examination, diagnosis assessment and dental treatments progress according to the established treatment plan.
Practical activity carried out by students	• Techniques learned during the years of study underway. The association of different dental treatments, in a staged and coherent manner, with the aim of preparing final year students for the diversity of dental and general pathologies of patients who present themselves in dental offices.
Content	 Labor protection in the dental office. Specialty practice - Medical documents tracking; dental instrument's trackin the dental office; protocols for dental materials; protocol for receiving and examining patients in dental offices; observation sheet filling. Specialty practice - dental diagnosis and related conditions protocol assessment; complex oral rehabilitation treatment plan conduction in the context of associated conditions and chronical medication. Digital workflow in the dental office. Specialty practice - work protocol for evaluating the influence of the pharmacotherapy administered for the associated conditions regarding dental interventions; the interrelationship between patients' chronic medication and pharmacological preparations/medicines used in dental practice. Specialty practice - patients with/without comorbidities taking over and drafting medical letters with the aim of streamlining communication between the dentist and family doctors/specialists in different medical sub-branches. Pharmacological prescription in the dental office. Specialty practice - the particularities of prophylactic treatment in oral rehabilitation. Specialty practice - patients with/without comorbidities taking over and the specific patients\ assessment in order to perform dental treatments. Specialty practice – patients with/without comorbidities taking over and the periodontal treatment particularities of in the context of complex oral rehabilitation. Specialty practice – patients' with/without comorbidities taking over and the particularities of surgical treatment in the context of complex oral rehabilitation. Specialty practice – patients' with/without comorbidities taking over and the particularities of surgical treatment in the context of complex oral rehabilitation.

	10. Specialty practice – patients' with comorbidities taking over and endodontic treatment particularities in the context of complex oral rehabilitation.				
	11. Specialty practice – patients' with/without comorbidities taking over and orthodontic treatment particularities in the context of complex oral rehabilitation.				
	12. Specialty practice –patients' with/without comorbidities taking over				
	and prosthetic treatments particularities. Intraoral scanning digital				
	impression versus conventional/analogue impression.				
	13. Specialty practice – patients' with/without comorbidities taking over and implant treatment particularities. Stages of complex implant -				
	prosthetic oral rehabilitation.				
	14. Specialty practice – patients with associated conditions monitorings'				
	features the dental office. Case presentation – medical letter – treatment				
	plan in the context of general conditions – photos before/after dental				
	therapy – discussions.				
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	sinus-treatment-pdq.				
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L					

Percent of the final grade:		80 %	20 %			
		00.0/	semester:			
Evaluation:	Written Exam	Practical Exam	Activity during the			
	Apr; 8(4): 1308–	1312. doi: 10.4103/jfmpc.	jfmpc_97_19.			
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	21. Supriya Sharma,	÷	i, Pankaj K.			
		ealth Clinical Practice anagement of Tuberculosi				
		doi: 10.4103/jomfp.JOMI				
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	albicans counts	in asthmatic adult patier	nts taking anti-asthmatic			
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	0 1	t Panel Report 3: Guidelin	5			
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Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	Orthodontics
Cours title	ORTHODONTICS AND DENTO-FACIAL
	ORTHODONTICS - SP
Responsible for lecture	Assoc. Prof. Dr. Dana Feștilă
Responsible for practical	Assoc. Prof. Dr. Dana Feștilă
activity	Lecturer Dr. Mircea Ghergie
	Assist. Dr. Olimpia Bunta
	Asist. Drd. Suciu Tudor

The formative category of the discipline		DS	DS						
Compulsory discipline		Compu	lsory						
* *	hours/we		/week	hours/semester		ter	F 1	<i>a</i> 11	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Type of Assessment
6	2		2.5		35	40	75	3	Е

Pre-conditions (Preliminary conditions)	• Notions of orthodontics and dental radiology.
Requisities for lectures and practical activities	 Amphitheater with a projection system. 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.
	• 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.
	• 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.
L	

	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.				
	2. Diagnosis: cast study.				
	3. Diagnosis: patient photography study.				
	4. Diagnosis: cephalometric study and tracing.				
	5. Treatment planning.				
	6. Establishing the steps in fixed orthodontic treatment.				
	7. Application and use of the orthodontic retainers.				
	8. Check-ups, activation of the fixed appliances.				
	9. Taking impression.				
	10. Orthodontic extractions treatment plan.				
	11. Clinical cases.				
	12. Clinical cases.				
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	14. Clinical cases.				
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	Cristian, Aparate ortodontice, University Press, 2018.				

Evaluation:	Written Exam	Practical Exam	Activity during the semester:
Percent of the final grade:	50%	40%	10%

Institu	Institution for graduate and			Univer	University of Medicine and Pharmacy "Iuliu Hațieganu"				
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 II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			4 Prost	hetics and	l Dental	materials		
Discip	line			Prosthe	tic Dentis	stry			
Cours	title			PROSTHETIC DENTISTRY – SP					
Responsible for lecture		Lecturer Dr. Ispas Ana							
Respo	nsible	for pract	ical	Lecturer Dr. Ispas Ana					
activit	y			Assist.	Dr. Crăc	iun Anta	arinia		
				Assist.	Assist. Dr. Manziuc Manuela				
The fo	ormativ	ve catego	ry of	DS					
the discipline									
Compulsory discipline		Compulsory							
37	G	hours/week		ho	urs/semes	ter			Type of
Year	Year Sem	С	LP/S	C	LP/S	SI	Total Credits	Credits	Assessment
6	2		4		56	19	75	3	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	• 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.
Transversal competences	• 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	• Acquiring theoretical and practical knowledge related to the partial

objectives	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.

	PRACTICAL ACTIVITIES				
Teaching	Systematic presentation, discussions of the clinical cases,				
methods	demonstrations of the prosthetics procedures, establishing the				
	treatment plans. Knowledge seminars.				
Practical	Clinical examinations. Establishing of the prosthetics treatment				
activity carried	plan.				
out by students	• Performing of the prosthetic procedures which are involved in the				
	treatment steps of fixed and mobile prosthetics.				
Content	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).				

r	T				
			for the partially edentulous		
	patients (class IV K).				
Bibliography	 Allan B. Carr David T. Brown. McCracken's removable partial prosthodontics, 2016. Olcay Sakar. Removable partial dentures. Springer Cham, Switerland, 2016. Chang Ting-Ling, Daniela Orellana, and John Beumer. Kratochvil's Fundamentals of Removable Partial Dentures. Quintessence Publishing, 2019. James Field, and Claire Storei. Removable Prosthodontics at a glance. 1st Edition PDF, Wiley-Blackwell, 2020. LASCU LIANA MARIA, "Les bases théoriques de l'étude du 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. 				
Evolution	traitement de amovibles a prothèse par cliniques dan métallique", Cluj- Napoca	e l'édentement partiel p u châssis métallique"- tielle amovible au châs ns la réalisation des pro vol.II, vol.I, Edit. Med a, 2019.	es théoriques de l'étude du par des prothèses partielles "La biodynamique de la ssis métallique. Les étapes thèses partielles au châssis ic. Univ. "Iuliu Hațieganu"		
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the final grade:	50%	0%	50%		

Optionals Lectures

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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
Discipline	Toxicology
Cours title	Risks associated with drug consumption
Responsible for lecture	Prof. Dr. Béla Kiss
Responsible for practical	-
activity	

The formative category of the discipline		DA							
Compulsory discipline			Option	al					
Year	Sem	hours C	/week LP/S	ho C	urs/semes LP/S	ster SI	Total	Credits	Type of Assessment
1	1	1	0	14	14 0 36 50 2 V		V		

Pre-conditions (Preliminary conditions)	• Physiology.
Requisites for lectures and practical activities	 Students are expected to attend all scheduled lectures on time at the amphitheatre. If lectures will be organized online, students will connect in time to the Microsoft Teams platform. They will have their mobile phone switched off. Students must respect the internal rules and regulations of the university.

Professional	At the end of the lectures, students must be aware of:
competences	• 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	• At the end of the lectures, students must be able to participate in
competences	campaigns aiming to educate and inform the general population (e.g. in
	high-schools, universities) about the risks of drug abuse.
General	• To acquire theoretical knowledge about the risks associated to drug
objectives	abuse and addiction.
Specific	To acquire theoretical knowledge about:
objectives	• 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	• Lecture (systematic presentation with PowerPoint support),			
methods	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, economicaș, 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 illigit merket)				
	drugs of abuse from the illicit market).				
	14. Therapeutic approaches in acute intoxication with drugs of abuse and in drug addictions.				
Bibliography	1. Flomenbaum NE, Howland MA, Goldfrank LR, Lewis NA, Hoffman				
Dibilography	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-to-				
	drugs-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 Manitoring Captro for Drugs and Drug				
	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).				
	 Brugs, F. O. N. Controlling new psycholactive substances. (2012). European Monitoring Centre for Drugs and Drug Addiction. 				
	European Drug Reports 2014-2020.				
	Laropeur Ding Reports 2017 2020.				

	Understanding the Spice Phenomenon. Themat. Pap. 25 (2009). doi:10.2810/27063. 11. Unodc. World drug reports 2014-2020. United Nations publication 12. Raport național privind situația drogurilor 2014-2019.				
	 13. Hofer, K. E. et al. Ketamine-like effects after recreational use of methoxetamine. Ann. Emerg. Med. 60, 97–99 (2012). 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:		
Percent of the final grade:	100%				

Institu	Institution for graduate and		University of Medicine and Pharmacy "Iuliu Hatieganu"						
8			Cluj-Napoca						
Facult				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			Oral Re	eabilitatio	n			
Discip	line			Oral H	ealth				
Cours	title			Medical Bioethics					
Responsible for lecture			Associate Professor Maria Aluaș PhD						
Respo	nsible f	for pract	ical						
activit	y								
The fo	ormativ	ve catego	ry of	DA					
the dis	scipline)							
Compulsory discipline		Compulsory							
V	G	hours/week	ho	urs/semes	ester Tricili Contin		Type of		
Year	Sem	С	LP/S	С	LP/S	SI Total Cre	Credits	Assessment	
1	2	1	0	14	0	36	50	2	V

Pre-conditions (Preliminary conditions)	• Adequate level of understanding, conversation, speaking, and writing in English.
Requisities for lectures and practical activities	 Students will keep them off phones and other devices. During the course, talking on phone is not allowed. Students cannot leave the amphitheater to the reason of personal phone calls. It is not allowed to eat during class sessions; consumption of food and drinks is prohibited. Students are obliged to respect timetables; the late arrival

to activities is prohibited, as this will disturb the working
sessions.

Professional	• Being able to use correctly in the context of specific terminology.				
competences	• Being able to frame an ethical problem in the medical context.				
-	• Identify the negative consequences that can derive from the				
	application of an erroneous or superficial solution.				
	• Being able to use efficient sources of information and distinguish				
	official information other information found on the internet.				
Transversal					
	• Having the ability to use the concepts learned in new contexts.				
competences	• Prove to have the ability and the actual concern for a collegial				
	communication, as well as professional.				
	• Show concern for the teamwork, having as final result the realization				
	of a common project.				
	• Show concern for professional development with the permanent				
	exercise of clinical reasoning skills.				
	• Show constant involvement in research and specialty scientific				
	publishing activities.				
	• Show the ability to use electronic means to the documentation in the				
	field of bioethics.				
General	• At the end of the semester, students must be able to identify ethical				
objectives	issues in medicine and the health system.				
Specific	At the end of the semester, students will be able to:				
objectives	• Distinguish between describe and evaluate a concrete situation and				
	delineate the ethical issues.				
	• Justify the ethical decisions we make in such situations.				
	• Apply the ethical principles of reference documents of bioethics				
	literature (Oviedo Convention (1997) and the Universal Declaration on				
	Bioethics and Human Rights (2005)).				
	 Problematizing the situation presented. 				
	Assimilate the main approaches in bioethics.				

	LECTURES						
Teaching methods	• Exhibition of knowledge according to the proposed themes, stimulating interactivity; illustration by clinical cases; use of multimedia.						
Content	 Introductory notions: definitions, history and foundations of Bioethics. Causes and cases that raised Bioethics as new discipline in the universities curricula: Baby Doe Case (US 1982). Quality of Life: Leonard Arthur Case (UK 1983). The concept of "person": Gauvin Case (US 2010). Disability Meanings: Perruche Case (France 2005). Confidentiality and legal derogations. 						
	7. Truth Telling Issues.						

	8 Consent in Pessor	ch and Clinical Trials.				
	9. Consent in Clinica					
	10. Surrogate Conser					
	11. Advance Directive					
	12. Euthanasia. End o					
	13. Organ Transplantation.					
	14. Assisted Reproductive Medicine.					
		CAL ACTIVITIES				
Bibliography			' Competence to Consent			
	0	J Med 2007;357:1834-40				
	1	Issues Raised by Multipar	. ,			
		the Crossroads of Gen	*			
	e e	mic Press Elsevier, Londo				
		and Medical Confider	ntiality. British Medical			
		arch ed.) · July 1987.				
		Berg, J.D., MPH. Medi	cal Confidentiality and			
	Exceptions, 2014.					
	5. Aluaș, Maria, <i>Bioetica în dezbaterea contemporană: istorie și interpretări</i> , in: "Studia Universitatis Babes-Bolyai – Bioethica", LVI,					
	1, 2011, pp. 39-58. 6. Beauchamp, Tom, James F. Childress, (1989), <i>Principles of</i>					
	1 1 1 1					
	<i>biomedical ethics</i> , New York, Oxford University Press. 7. Reich, W.T. (ed), (1995), <i>Encyclopedia of Bioethics</i> , New York,					
			of bioeinics, New Fork,			
	USA, Macmillan Lib OFFICIAL DOCUM	5				
			this and House Disks			
	8. UNESCO, <i>Univer</i> 2005.	rsal Declaration on Bioe	etnics and HumanKights,			
		muntion on Human Diah	to and Diamadiaina			
	9. Europe Council, <i>Convention on Human Rights and Biomedicine</i>					
	Oviedo, 1997 and additional protocols.					
Evaluation:	Written Exam	Practical Exam	Activity during the			
		I Tacucai Esalli	semester			
Percent of the			100%			
final grade:			10070			
mai graue:	1					

Institution for graduate and	University of Medicine and Pharmacy "Iuliu Hațieganu"
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	Oro-dental health of children and adolescents in the

				contex	t of gener	al healt	h		
Respo	Responsible for lecture Assoc. Prof. Dr. Alexandrina Muntean								
Respo	nsible f	for pract	ical						
activit	t y								
The formative category of			DS	DS					
the dis	the discipline								
Comp	ulsory	disciplin	e	Optional					
	a	hours	/week	ho	urs/semes	ster	T 1	a ii	Type of
Year Sem C LP/S		C	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. Preventive dentistry-basic notions.
Requisites for lectures	• Amphitheater with projection system.
and practical activities	

Professional competences	• Special features of public health principles used in pediatric dentistry.			
Transversal competences	Use assimilated concepts in new contexts.Apply theoretical notions in the practical activity.			
General objectives	• Know the concepts of prevalence and prevention of oral-heatl related pathologies.			
Specific objectives	 Oral health, general health. Normal and pathological development of the dento-maxillary apparatus. Decay prevention. Vicious habits and parafunctions. Health education. 			

	LECTURES						
Teaching methods	• Interactive lecture, PowerPoint presentations made by groups of students on assigned themes / educational projects.						
Content	1. Health-definitions, concepts.						
	2. Oral and oro-dental health-definitions, concepts.						
	3. Evaluation indices for oro-dental health.						
	4. Childhood and adolescence-caries risk assessment.						
	5. Childhood and adolescence-psycho-cognitive and collaborative						
	peculiarities, adjuvant and limiting factors for oro-dental health.						
	6. Diet-risk factor / control of odonto-periodontal diseases.						
	7. Oro-dental hygiene-risk factor / control of odonto-periodontal						
	diseases.						
	8. Vicious habits and parafunctions.						
	9. Indicators for monitoring oro-dental health.						

	10. OHRQoL-definition	on concept			
		· •			
	11. OHRQoL-evaluati		1 11 1 14		
		etween individual health a			
	13. The impact of oral diseases on individual health.				
	14. Health education i	n the context of today's so	ociety.		
Bibliography	1. Michaela Mesar	ros, Alexandrina Munte	ean, Medicina Dentara		
	Pediatrica, Ed.	Medicala Universitara"	Iuliu Hatieganu", 2016,		
	ISBN 978-973-69	93-724-8.			
	2. Arthur Nowak, J	John R. Christensen. Ped	liatric Dentistry: Infancy		
		ence, 6e Hardcover 2018.	5		
	3. Mcdonald, Aver	y's. Dentistry for the Ch	ild and Adolescent, 10e		
	Hardcover, 2022		,		
	4. Amr M. Moursi Clinical Cases in Pediatric Dentistry. 2nd Edition,				
	2020.				
	5. Declan T. Millett, Peter Day. Clinical Problem Solving in				
	Dentistry: Orthodontics and Paediatric Dentistry. 2016.				
	•	sen, S., Espelid, I., Hau	2		
		y: a clinical approach. Joh			
		5 11	2		
		or. Handbook of clinical			
	dentistry. John Wiley & Sons, Incorporated; 2015 Feb 18.				
Evaluation:	Written Exam	Practical Exam	Activity during the		
			semester:		
Percent of the	%	%	100%		
final grade:					

Institution for graduate and			Univers	University of Medicine and Pharmacy "Iuliu Hațieganu"					
postgraduate studies			Cluj-Napoca						
Facult	ty			Dental	Medicine				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	l		Doctor	of Dental	Medici	ne		
Depar	tment			2 - Fun	ctional sc	iences			
Discip	line			Fiziopa	tologie				
Cours	title			Applied physiopathology					
Respo	nsible	for lectu	re	Assist. Prof. Dr. Camelia Manuela Mîrza					
-		for pract	ical						
activit	v	ve catego	my of	DE	DF				
	scipline	0	1 y 01	DF					
	Compulsory discipline			Optional					
	~	hours	/week	ho	urs/semes	semester		Type of	
Year	ar Sem	С	LP/S	С	LP/S	SI	Total	Credits	Assessment
2	2	1	0	14	0	36	50	2	V

Pre-conditions				
	1.4.			
(Preliminary co				
Requisites for l	ectures and	 Mandatory presence at 70% of the courses. 		
practical activi	tis	• Delay of students to the course will not be tolerated.		
Professional	• To analyze	the data and select the necessary tests for the diagnosis of		
competences	patients wi	th oro-maxillofacial and general disorders.		
	• To be able	to interpret the results of the evaluation tests of patients with		
	oro-maxille	ofacial and general disorders.		
	• To create t	he pathophysiological map of patients with oro-maxillofacial		
	and genera			
Transversal	• To acquire the ability to use digital media for medical information.			
competences	• To acquire the ability to present complex topics.			
General	• At the end	d of the semester the students will be able to correctly		
objectives	complete the pathophysiological map of the patients with oro-			
	maxillofac	al and general disorders.		
Specific	• Identificati	on of the basic pathophysiological mechanisms of patients		
objectives		axillofacial and general disorders.		
	Developme	ent of a plan for the evaluation of patients with oro-		
maxillofaci		al and general disorders based on the pathophysiological		
	mechanism	S.		
	• Correct interpretation of the tests to evaluate the pathophysiological			
		s of patients with oro-maxillofacial and general disorders.		

	LECTURES						
Teaching methods	• Lecture, Systematic and interactive presentation.						
Content	1. Dental manifestations in respiratory diseases- part 1.						
	2. Dental manifestations in respiratory diseases- part 2.						
	3. Dental manifestations in cardiovascular diseases- part 1.						
	4. Dental manifestations in cardiovascular diseases- part 2.						
	5. Dental manifestations in digestive system diseases- part 1.						
	6. Dental manifestations in digestive system diseases- part 2.						
	7. Dental manifestations in hemostasis and red blood cells diseases-						
	part 1.						
	8. Dental manifestations in hemostasis and red blood cells diseases-						
	part 2.						
	9. Dental manifestations in endocrine diseases- part 1.						
	10. Dental manifestations in endocrine diseases- part 2.						
	11. Dental manifestations in renal diseases- part 1.						
	12. Dental manifestations in renal diseases- part 2.						
	13. Dental manifestations in nervous system diseases- part 1.						
	14. Dental manifestations in nervous system diseases- part 2.						

Bibliography	 Chen Q.et al, Case Based Oral Mucosal Diseases, Springer, 1st ed. 2018. Komabayashi T., Clinical Cases in Endodontics (Clinical Cases (Dentistry), Wiley Blackwell, 2018. McKenna G. et al, Clinical cases in gerodontology, Wiley-Blackwell, 2021. Karimbux N. et al Clinical cases in implant dentistry, Wiley-Blackwell, 2017. Ernberg M. et al Clinical cases in orofacial pain, Wiley-Blackwell, 2017. Moursi A.M. et al, Clinical cases in pediatric dentistry (2nd edition), Wiley-Blackwell, 2020. Karimbux N., Clinical cases in periodontics (2nd Ed), Wiley-Blackwell, 2022. Prabhu S.R., Clinical diagnosis in oral medicine: a case-based approach, Jaypee, 2019. 				
Evaluation:	Written Exam	Practical Exam	Activity during the semester:		
Percent of the final grade:	%	%	100 %		

Institution for graduate and			Unive	rsity of M	ledicine	and Pharn	nacy "Iuliu	Hațieganu"	
postgraduate studies			Cluj-N	Cluj-Napoca					
Facult	Faculty			Denta	l Medicin	e			
Domain of study			Health	Health					
Acade	emic de	gree		Denta	l Medicin	e in Eng	glish		
Level	of cou	rse		I and I	II- License	e and m	asters		
Quali	ficatior	1		Docto	r of Denta	al Medic	cine		
Depar	rtment			2- Coi	nservative	dentist	ry		
Discipline			Odont	Odontology, endodontics and oral pathology					
Cours title			The challenges of the young doctor's adaptation to						
			professional practice						
Responsible for lecture			Senio	Senior lecturer Dr. Moga Radu-Andrei					
Respo activit	Responsible for practical								
The fo	ormativ	ve catego	ory of	DS	DS				
	sciplin								
Compulsory discipline			-	Optional					
V	C	hours/week	week	hours/	hours/semester			Carlie	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total C	Credits	Assessment
3	1	1	0	14	0	36	50	2	V
0	C-courses: I. D-practical activity: S-laboratorica: SI-individual study								

 $C{=}courses; \ LP{=}practical \ activity; \ S{=}laboratories; \ SI{=}individual \ study$

D 11.1	(D 1' '
Pre-conditions	(Preliminary)
r ie contaitions	(1 I Chilling

conditions)	
Requisites for lectures and	
practical activitis	

Professional	• Creating an overview of the healthcare system in which medical
competences	practice will take place.
	• To learn general information about career orientation and
	development.
	• General information on opening and managing a private practice.
	General information on managing a medical business.
	• General information on various aspects of patient selection and
	interacting with them.
	• General information on managing a doctor-patient conflict.
Transversal	• Application of theoretical concepts in practical work.
competences	• Establishing interdisciplinary correlations within the fields studied.
General	• Creating an overview of the healthcare system in which medical
objectives	practice will take place.
	• To learn general information about career orientation and
	development.
	• General information on opening and managing a private practice.
	• General information on managing a medical business.
	• General information on various aspects of patient selection and
	interacting with them.
	• General information on managing a doctor-patient conflict.
Specific	Use of assimilated notions in new contexts.
objectives	• Application of theoretical notions in practical work.
-	• Establishing interdisciplinary correlations within the fields studied.

LECTURES			
Teaching			
methods			
Content	1. Dentistry and practice in a globalised society - trends, tendencies,		
	opportunities and dangers.		
	2. Selection of the health system in which the young doctor will practice		
	- the advantages and disadvantages of the public system vs. private		
	3. Implications of professional practice in the private vs. public -		
	economic, legal, legislative.		
	4. Professional career – directions and development opportunities.		
	5. Professional practice in the private environment - employee vs.		
	employer, advantages-disadvantages, opportunities-dangers.		
	6. Basic aspects of establishing and opening a private practice - selecting		
	the place, type, location, space.		
	7. Setting up and equipping a private practice - legal, administrative,		
	economic issues.		
	8. Managing a private practice - legal, administrative, economic issues.		
	9. Patient selection of a private practice - practical aspects.		

	10 Promotion of the medical hypinage legal administrative economia		
	10. Promotion of the medical business - legal, administrative, economic issues.		
	11. Aspects related to the interaction with patients of a private practice.		
	12. The success of a medical business - opportunities or dangers?		
	13. Doctor-patient conflict – causes and opportunities.		
	14. Managing and resolving a doctor-patient conflict.		
Bibliography	Bibliography - Books		
	1. Moga R.A., Delean A.G., Tratat de medicina si patologie orala, Ed.		
	a 2-a, Editura Medicală Universitară "Iuliu Hațieganu", pg.398,		
	2020, ISBN 978-973-693-966-2.		
	2. Moga R.A., Delean A.G., Traite de médecine et pathologie orale, 2-		
	eme ed., Editura Medicală Universitară "Iuliu Hațieganu", pg.400,		
	2020, ISBN 978-973-693-965-5.		
	3. Moga R.A., Delean A.G., Tratat de medicina si patologie orala,		
	Editura Medicală Universitară "Iuliu Hațieganu", pg.287, 2018,		
	ISBN 978-973-693-849-8.		
	4. Moga R.A., Delean A.G., Traite de medecine et pathologie orale,		
	Editura Medicală Universitară "Iuliu Hațieganu", pg.280, 2018,		
	ISBN 978-973-693-848-1.		
	5. Moga R.A., Mureșanu L., Socio-deontological aspects of dental		
	practice, Editura Medicală Universitară "Iuliu Hațieganu", pg. 166,		
	2011.		
	6. Moga R.A., Mureșanu L., Linii ajutatoare in studiul aspectelor		
	sociale ale practicii odontologice, Editura Medicală Universitară		
	"Iuliu Hațieganu", pg.234, 2011.		
	7. Moga R.A., Mureşanu L., <i>Guiding lines for the study of the social</i>		
	aspects of the dental practice, Editura Medicală Universitară "Iuliu		
	Hațieganu", pg.202, 2011.		
	8. Moga R.A., Mureșanu L., <i>Lignes directrices nécessaire pour l'étude</i>		
	des aspects sociaux de la pratique d'odontologie, Editura Medicală		
	Universitară "Iuliu Hațieganu", pg.216, 2011.		
	9. Moga R.A., Mureșanu L., Aspecte socio-deontologice ale practicii		
	odonto-stomatologice, Editura Medicală Universitară "Iuliu		
	Hațieganu", pg.199, 2010.		
	Moga R.A., Mureșanu L., Les aspects socio-éthiques de la pratique		
	<i>d'odonto-stomatologie</i> , Editura Medicală Universitară "Iuliu Hațieganu", pg.207, 2010.		
	Muresanu L., Aspecte sociale ale practicii odontologice, Editura		
	Mulesanu L., Aspecte sociale ale practici odoniologice, Editura Medicală Universitară "Iuliu Hațieganu", pg.175, 2004.		
	wieuleală Olliveisitală lullu frațilegăliu, pg.173, 2004.		
	CD:		
	Moga R.A., Mureșanu L., <i>Ghid de studiu- Aspecte sociale ale practicii</i>		
	odontologice, Editura Medicală Universitară "Iuliu Hațieganu",		
	pg.391, 2011.		

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 Hațieganu"						
postgraduate studies			Cluj-Napoca						
Faculty			Dental	Medicine	;				
Doma	in of st	udy		Health					
Acade	emic de	gree		Dental	Medicine	in Engli	sh		
Level	of cour	se		I and II	- License	and mas	sters		
Quali	fication	1		Doctor	of Dental	l Medici	ne		
Depar	tment			II-Cons	servative	Dentistry	7		
Discipline			Pedodontics						
Cours title			Minimal invasive techniques in paediatric dentistry						
Responsible for lecture			Lecturer Dr. Meda-Romana Simu						
Responsible for practical activity									
The fo	ormativ	ve catego	ry of	DA					
the dis	scipline	e –	-						
Compulsory discipline			Optional						
NZ	Sem	hours/week	week	hours/semester		ster	T 1		Type of
Year		С	LP/S	C	LP/S	SI	Total Credits	Credits	Assessment
3	2	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 practical activitis	• Amphitheater with projection system.

Professional competences	• Special features of minimal invasive and non invasive techniques used in pediatric dentistry.	
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	• Knowledge of the concepts of minimal invasive techniques.	
objectives		
Specific	• The use of bioactive dental materials.	
objectives	• Indication and use of several minim invasive techniques.	
	Prophylaxis concepts.	

	L	ECTURES			
Teaching methods		ic and interactive present	ation.		
Content	1. Prevention of denta	l caries- diet control.			
	2. Prevention of denta	l caries - oro-dental hygi	ene.		
	3. Prevention of denta	l caries - the role of fluor	ride.		
	1	y prophylaxis - enamel re			
	Phosphopeptide and Amorphous Calcium Phosphate.				
		s of dental caries located			
		nally invasive techniques			
	<u> </u>	es - Isolation, Cavity Pre	<u> </u>		
	simple superficial cari	nally invasive techniques	s for the treatment of		
		nally invasive techniques	s for the treatment of		
		es-Restoration of corona			
	technique.		ay morphology stamp		
		erials used in pediatric de	entistry.		
	10. ART technique.	F			
	11. SMART technique.				
	12. HALL technique.				
	13. Silver Diamine Flu	uoride.			
	14. Resin Infiltration t	echnique.			
Bibliography	1. JANE A. SOXMA	AN ,Handbook of Clinic	al Techniques in Pediatric		
		Edition ,Wiley-Blackwe			
		-	NA MUNTEAN, Medicina		
	Dentara Pediatrica, Ed. Medicala Universitara" Iuliu Hatieganu", 2016, ISBN 978-973-693-724-8.				
			IDISTENSEN Dedictric		
		VAK, JOHN R. CH			
		through Adolescence, 66 VERV'S Dentistry for t	the Child and Adolescent,		
	10e Hardcover. 20	-	the child and Adolescent,		
			Pediatric Dentistry. 2nd		
	Edition, 2020.	tor childen cubes in	Foundatio Bondstry. 2nd		
		LETT, PETER DAY. C	linical Problem Solving 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 Hațieganu"
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						
Quali	fication	l		Doctor of Dental Medicine						
Depar	tment			3 Oral	Rehabilita	ation				
Discip	line			Oral He	ealth					
Cours title			Innova	tive met	nods for	tissue re	generatio	n in		
				dentist	ry					
Responsible for lecture				Lecturer vacant 26						
Responsible for practical										
activity The formative category of the discipline				DA						
Comp	ulsory	disciplin	e	Optional						
hours/week				ho	urs/semes	ster	T 1	Tetal Crudita Type of		
Year Sem		С	LP/S	С	LP/S	SI	Total C	Credits	Assessment	
4	1	1	-	14	-	36	50	2	Е	

Pre-conditions (Preliminary conditions)	• Cervical area anatomy and physiology, Odontology, Endodontics, Prosthetics, Parodontology, Maxillofacial Surgery, Implantology, Orthodontics.
Requisities for lectures and	• Amphitheater with projection system.
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
Transversal competences	 regenerative dental medicine. Integration of the notions assimilated during the lectures of regenerative 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 objectives	• The knowledge of the basic notions regarding the sources, the morphophysiology, the classification, the benefits brought by the application of the knowledge accumulated in the current dental practice

	of the stem cells.
Specific objectives	• Harvesting and storage of stem cells, their characterization, highlighting 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, system	atic, interactive presenta	tion				
methods	Oral presentations, Power-Point presentations.						
Content	1.Stem cells- morph	ophysiology concepts.					
	2. Oral cavity stem cells harvesting protocol.						
	3. Stem cells charact	terization.					
	4. Stem cells passage	е.					
	5. Stem cells storage	<u>.</u>					
	6. Stem cells culture	s and growth factor's impl	ications.				
		g and matrix applications.					
		structure's regeneration.					
		neural structures regenerat					
		l soft and striatum muscula	r tissue regeneration.				
		vessel's regeneration.					
		lontal structure's regenerat	ion.				
		structure's regeneration.					
	14. Clinical case dise						
Bibliography		dition. Scientific facts and					
		van de Stolpe Bernard Ro					
		eBook ISBN: 9780128226					
		lls. Editors: Şahin, Fikrettin					
	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 Hațieganu"
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
Discipline	Prosthetic Dentistry
Cours title	Pre-prosthetic paraclinical investigations
Responsible for lecture	Lect. Dr. Andreea Kui
Responsible for practical	
activity	

The formative category of the discipline				DA					
Compulsory discipline			Option	al					
* 7	~	hours/week		hours/semester			T 1	~ "	Type of
Year	Sem	С	LP/S	C	LP/S	SI	Total	Credits	Type of Assessment
4	2	1	-	14 - 36			50	2	Ε

Pre-conditions (Preliminary conditions)	 Knowledge of the morphology of the teeth and dental arches. Knowledge of the technology needed in order to achieve single-tooth fixed prosthetic crowns (from preclinical years); knowledge of fixed partial dentures/single unit fixed prosthesis.
Requisites for lectures and practical activitis	

Professional	• Clinical evaluation of patients with dental crowns lesions.						
competences	• Assessment of information 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 the para-clinical investigations available and gaining the						
objectives	necessary skills for indicating them in a certain situation						
Specific	• Knowledge of the objectives and contingencies in fixed						
objectives	prosthodontics.						
	• Study of dental crowns destructions that may benefit from treatment						
	with single-tooth fixed prosthetic crowns.						
	Presentation of different para-clinical investigations.						
	• Presenting the dental surveyor and the semi-adaptable articulator.						
	• Working with a dental surveyor in dental office.						
	• Mounting the casts into a semi-adaptable articulator and the benefits in						
	the context of a prosthetic restoration.						
	• Practicing the ability of synthesis and reference documentation.						

	LECTURES					
Teaching methods	Lectures, systematic oral exposure, interactive.					
Content	1. Complete and complex pre-prosthetic examination of the partial edentulous patient; identification of patient's needs and expectations					
	2. Dental photography.					
	3. Study models, mounting models in the articulator.					
	4. Using dental surveyor for model analysis.					
	5. Lateral cephalometry: analysis, assessment from prosthetic					
	perspective.					
	6. Periapical, panoramic and CBCT pre-prosthetic radiological evaluation.					
	7. Complex TMJ investigations: axiography, temporomandibular joint MRI.					
	8. Prosthetic treatment preview methods: wax-up, mock-up, digital smile design.					
	9. Dental color evaluation: colorimetry, spectrophotometry and dental shape guide.					
	10. Diagnosis of carious lesions in the abutment teeth: DiagnoDent,					
	Fiber Optic Trans Illumination.					
	11. Periodontal examination in prosthetic dentistry: mobilometry,					
	periodontal charting.					
	12. Orthodontic and occlusal assessment in prosthetic dentistry:					
	conventional and digital assessment.					
	13. Preprosthetic treatments.					
54.14	14. Case presentations.					
Bibliography	 Shilligburg T.H., Hobo S., Whitsett L.D ,,Fundamentals of fixed prosthodontics" Fourth edition. Quint. Publ. Co. Chicago-Tokyo, 2012. Rosenstiel S.F., Land M.F., Fujimoto J. ,,Contemporary fixed prosthodontics", Fifth edition.Mosby Co: St.Louis, 2016. 					
	 3. Essentials of Esthetic Dentistry-Smile Design integrating esthetics and function, vol.two.2016, Jonathan B. Levine DMD, Elsevier, ISBN: 9780723435556. 					
	4. Heasman P. Master dentistry - Restorative Dentistry, Paediatric Dentistry and Othodontics. Third Edit. Churchill Livingstone Elsevier; 2012.					
	5. Wassell R, Nohl F. Extra-Coronal Restorations; Concepts and Clinical Application. Second. Springer International Publishing; 2019. 459 p.					
	 6. Ritter A, Boushell L, Walter R. Sturdevant's Art and Science of Operative dentistry. Seventh. Elsevier, editor. St. Louis Missouri; 2019. 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 Team. 2016;3(2):8–10. 					
	9. Porter M, Adarve R. Fabrication of Provisional Restoration Using					

	Direct Technique. MedEdPORTAL. 2011;7(1).					
Evaluation:	Activity during the semester:					
Percent of the final grade:	100%	100 %				

Institu	ition fo	r gradua	ate and	Univers	sity of Me	edicine a	nd Pharm	acy "Iuliu	Hațieganu"	
postgr	aduate	studies		Cluj-Napoca						
Facult	ty			Dental	Medicine					
Doma	in of st	udy		Health						
Acade	emic 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			Ι						
Discip	line			Maxillofacial Surgery and Implantology						
Cours	title			Laser Applications in Dentistry						
Respo	nsible	for lectu	re	Vacancy post of Lecturer pos. 26						
Respo activit		for pract	ical							
The fo	ormativ	ve catego	ry of	DA						
the dis	scipline	2								
Compulsory discipline			Optional							
NZ	a	hours/w	/week	ho	urs/semes	ter	T 1	Credits	Type of	
Year	Sem	С	LP/S	C	LP/S	SI	Total		Assessment	
5	1	1	-	14	-	36	50	2	V	

Pre-conditions (Preliminary conditions)	 Knowledge about dental anatomy and physiology of the dento-maxillary system. Knowledge about Medical Biophysics. Knowledge about local anesthesia in dentistry. Knowledge about conservative dentistry. Knowledge about endodontics. Knowledge about periodontics. Knowledge about prosthetics. Knowledge about oral surgery. Knowledge about implantology. Knowledge about esthetic dentistry. 	
Requisites for lectures and practical activitis	• The ability to analyze anatomo-clinical parameters in the study of clinical cases. The ability of establishing clinical diagnosis in the dentistry and oral-maxillofacial surgery.	

Professional	• Acquiring theoretical notions for laser applications in dentistry.	
competences	• Acquiring theoretical notions related to the physics of lasers and laser	
	types indications in dentistry.	
Transversal	• Utilizing the acquired notions in new contexts.	

competences	 Applying theoretical notions in practical activities. Establishing interdisciplinary correlations within the studied fields. To have the ability to effectively communicate with the patient. To demonstrate an interest towards professional improvement towards the constant training of analytic and synthetic thinking abilities. To demonstrate involvement in research activities such as the
	elaboration of scientific articles.
General objectives	• The course offers Vth year Medical Dentistry students of the Dental Medicine Faculty the theoretical notions linked with laser applications in dentistry.
Specific objectives	 Introductory notions of physics-related principles of lasers and laser radiation. Acquiring theoretical knowledge of the laser and oral tissues interaction. Acquiring knowledge of laser parameters and types of laser use in dental medicine. The acquisition of knowledge related to laser applications in various fields of dentistry. Knowledge of the effects of low-level laser energy. Protective measures and safety of lasers.

	LECTURES		
Teaching	• Lecture systematic, interactive exposition. Oral presentations,		
methods	Power-Point presentations, video presentations or digital		
	simulations.		
Content	1. Laser definition. Principles and characteristics of laser radiation.		
	2. Laser radiation parameters and the main types of lasers used in dental medicine.		
	3. Interaction of laser radiation with the tissues of the oral cavity.		
	4. Laser applications in conservative dentistry.		
	5. Laser applications in endodontic treatment.		
	6. Applications of laser in prosthetic treatment.		
	7. Laser applications in periodontal treatment.		
	8. Applications of laser in oral surgery.		
	9. Applications of laser in oral implantology.		
	10. Laser applications in orthodontics and Pediatric Dentistry.		
	11. Applications of laser in aesthetic dentistry.		
	12. The principles and effects of laser radiation with low levels energy.		
	Applications of low level laser therapy (LLLT) in dentistry.		
	13. Protective and safety measures in the use of laser in dentistry.		
	14. Indications, contraindications and limitations of laser in dentistry.		
Bibliography	1. Donald J. Coluzzi, Steven Parker. Lasers in Dentistry-Current		
	Concepts. Springer, 2017.		
	2. Brugnera, Jr Aldo, Samir Namour. Laser Dentistry: Current		
	Clinical Applications. WFLD, 2018.		
	3. Olivi Giovanni, Olivi Matteo. Lasers in Restorative Dentistry.		

Percent of the final grade:	%	%	100 %	
Evaluation:	Written Exam	Practical Exam	Activity during the semester:	
		Edra Spa 2021.		
	Riversa. Manual of diode laser in dentistry and stomatology.			
	Wiley-Blackwell, 2021. 6. Emanuele Ruga, Marco Garrone, Raffaele M. Calvi, Roberto			
	0		aser Surgery in Dentistry.	
	Lasers in Oral and Maxillofacial Surgery. Springer, 2020.			
	Springer, 201 4. Stübinger, S		nidt, M., Zeilhofer, HF.	

Institu	Institution for graduate and			University of Medicine and Pharmacy "Iuliu Hatieganu"					
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 II	- License	and mas	sters		
Qualif	fication	l		Doctor	of Dental	Medicin	ne		
Depar	tment			III					
Discipline			Oral Re	ehabilitati	on				
Cours title			Oral appliances for the treatment of sleep apnea and						
			snoring						
Responsible for lecture			Prof. Dr. Ilea Aranka - Lecturer 26 vacancy						
Responsible for practical									
activity									
		ve catego	ry of	DS					
-	the discipline								
Comp	Compulsory discipline			Optional					
Veer	C	hours/week		ho	urs/semes				Type of
Year	Sem	C	LP/S	C	LP/S	SI	Total	Credits	Assessment
5	2	1	0	14	0	36	50	2	V

Pre-conditions	
(Preliminary conditions)	
Requisites for lectures and	
practical activitis	

Professional competences	• Ability to decide the opportunity for OSA treatment 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 OSA dental medicine.
Transversal	• Integration of the notions assimilated during the lectures of regenerative
competences	dentistry in Prosthetics, Parodontology, Maxillofacial Surgery,
	Orthodontics.
	• Applying theoretical notions in practical work.
	• Establishment of interdisciplinary correlations within the studied domains.
General objectives	• The knowledge of the basic notions regarding the sources, the morphophysiology, the classification, the benefits brought by the application of the knowledge accumulated in the current dental practice of the OSA.
Specific objectives	• Diagnostic and treatment plan for pacients with OSA.

	LECTURES			
Teaching	Lecture, systematic, interactive presentation			
methods	Oral presentations, Power-Point presentations.			
Content	1. Introduction to sleep medicine.			
	2. Pathophysiology of snoring and sleep apnea.			
	3. Diagnosis of obstructive sleep apnea (OSA): Questionnaires, Home sleep test, Polysomnography in the sleep lab.			
	4. CPAP therapy with the mask (Continuous Positive Airway Pressure).			
	5. Oral appliances - mechanism of action.			
	6. Types of oral appliances.			
	7. International guidelines on the use of mandibular advancement splints in OSA.			
	8. Clinical procedures for oral appliance therapy - step-by-step: patient history.			
	9. Clinical procedures for oral appliance therapy - step-by-step: dental / periodontal/ functional / radiographic examination.			
	10. Protrusive bite registration.			
	11. Titration and instruction to the patient.			
	12. Managing side effects and patients follow up.			
	13. Interdisciplinary collaboration: dentist – sleep physician.			
	14. The role of dentists/orthodontists in diagnosing sleep apnea.			
Bibliography	1. Aranka Ilea, Daniela Timuş, Julian Höpken, Vlad Andrei, Anida-			
	Maria Băbțan, Nausica Bianca Petrescu, Radu Septimiu Câmpian,			
	Adina Bianca Boșca, Alina Simona Șovrea, Marius Negucioiu &			
	Anca Ștefania Mesaros (2019) Oral appliance therapy in			
	obstructive sleep apnea and snoring - systematic review and new			
	directions of development, CRANIO®, DOI:			

		34.2019.1673285.	Rosen, M.D., M.S.C.E.
	6	•	ngl J Med 2019; 380:1442-
	1449.	p Aprica III Adults. N El	Igi J Med 2019, 380.1442-
		Ahmed M Afifi Cath	arine B Garland, Ruston
			Obstructive Sleep Apnea:
			cial Considerations. Plast
		-	;140(5):987-997. doi:
		000000000003752.	uoi:
			an Floyd. Diagnosis and
			ea in Adults. Am Fam
		Sep 1;94(5):355-60.	
			Iarcus Povitz, Sachin R
			obstructive sleep apnea in
	adults. CMAJ	. 2017 Dec 4;189	(48):E1481-E1488. doi:
	10.1503/cmaj.17	70296.	
			ang Du. Obstructive sleep
			6(11) 12 September 2019
		<u>0.1002/kjm2.12130</u> .	
			V Pamboukian, Harvey S
			. Obstructive Sleep Apnea
			alence, Treatment with
		2	nd Prognosis. Tex Heart
	eCollection 2018		10.14503/THIJ-15-5678.
			Obstructive Sleep Apnea.
	Sleep Med		un;13(2):203-217. doi:
	10.1016/j.jsmc.2		$u_{11}, 15(2), 205-217, 001.$
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 Hațieganu"
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	IV
Discipline	Dental Propaedeutics and Esthetics
Cours title	Tips and Tricks- Technical Management of the Dental
	Office
Responsible for lecture	Associate Prof. Dr. Anca Mesaros
Responsible for practical	

activit	ty								
The formative category of			DA	DA					
the discipline									
Comp	Compulsory discipline			Option	Optional				
X 7	G	hours/week		hours/semester		T 1	<i>a</i> 11	Type of	
Year Sem		С	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	1	1	0	14	0	36	50	2	V

Pre-conditions (Preliminary conditions)	• Having participates in internships in dental offices.	
Requisites for lectures and practical activitis	• Notions of patient examination in dentistry.	

Professional	• Being able to manage and cope with small technical issues that appear
competences	daily in the dental office.
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	• Understanding the way the devices from the dental office work.
objectives	
Specific	
objectives	

	LECTURES		
Teaching	Interactive PPT presentations.		
methods			
Content	1. Handpieces-description, maintenance, handling and common problems.		
	2. Vacuum cleaner of the dental unit - types, efficiency, frequent problems.		
	3. Irrigation (water-air spray / air-flow / physiodispenser) - types, efficiency, common problems.		
	4. Pedals - functions, common problems, solutions.		
	5. Compressor - power, capacity, necessary, frequent problems.		
	6. Scaling device or handpiece - how to use, settings, common problems.		
	7. Unit lamp, lighting sources, light curing lamps, bleaching lamps, UV lamps - how to use, settings, common problems.		
	8. Autoclave - maintenance, operation, mandatory tests.		
	9. Distiller - utility, operation, maintenance techniques, common problems.		
	10. Ultrasonic bath - utility, operation, maintenance techniques, common problems.		
	11. Microscope in the dental office - utility, maintenance, frequent problems.		

	 12. Sterilization and disinfection - norms, checks, registers. 13. Dental unit configurations for different specialties. 14. Workflow protocol. 				
Bibliography	1. Internet Resources				
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 Hațieganu"						
postgr	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 II	- License	and mas	sters		
Qualif	fication	I		Doctor	of Dental	I Medici	ne		
Department			IV						
Discip	oline			Dental	Materials	, Ergono	omics		
Cours	Cours title			How to choose dental materials for different					
				prosthodontic cases					
Respo	nsible	for lectu	re	Vacant Lecturer 35					
Respo	nsible	for pract	ical						
activit	t y								
		ve catego	ry of	DA					
	scipline								
Comp	Compulsory discipline			Optional					
Vee	Sem	hours/week	/week	ho	urs/semes		Tetal Creative Typ		Type of
Year		C	LP/S	C	LP/S	SI	Total	Credits	Assessment
6	2	1	0	14	0	36	50	2	V

Pre-conditions (Preliminary conditions)	 Knowledge about the properties of dental materials. Knowledge about the technical steps of the main types of dental prosthetic treatments.
Requisites for lectures and practical activitis	

Professional	• Acquisition of information regarding the steps within the protocols,	
competences	which can be used to choose dental materials.	
	• Acquisition of notions related to the selection criteria of dental	
	materials depending on the particularities of different prosthodontic cases.	
	• Knowledge of the aspects related to properties of dental materials that	

	can guide the medical-technician team in the choice of dental materials, used in solving a case of dental prosthetics.		
Transversal	• Use of acquired information in new contexts.		
competences	• Establishing interdisciplinary correlations within the studied domains.		
General objectives	 Knowledge of concepts regarding the criteria and protocols for the selection of dental materials depending on the particularities of different prosthodontic cases. 		
	• Comparative study of the advantages and disadvantages of different types of dental materials that can be used for the same stage of the dental prosthetic treatment.		
Specific objectives	 Acquiring knowledge regarding the criteria that can guide the dental practitioner in the selection process of the impression materials and the materials from which the future prosthetic restoration is made from, depending on the particularities of different prosthodontic cases. Acquisition of information related to the protocols, which can be used to choose cementation materials and materials used in the preparation of the prosthetic restoration before cementation, for patients with different types of dental prosthetic cases. Acquiring knowledge about the criteria that can be used in the identification, by the dental practitioner, of the appropriate dental materials for prosthodontic cases depending on the type of reconstructions present on the prepared teeth. Practicing the capacity of synthesis and bibliographic documentation. 		

	LECTURES			
Teaching	• Interactive, systematic lectures.			
methods	• Oral presentation.			
	• Powerpoint presentation.			
Content	1. Recommended criteria and protocols for choosing materials for the			
	antagonist arch impression. Clinical case presentation and interactive			
	material selection exercise.			
	2. Recommended criteria and protocols for choosing materials for the			
	bite registration. Clinical case presentation and interactive material			
	selection exercise.			
	3. Recommended criteria and protocols for choosing materials for the			
	working arch impression. Clinical case presentation and interactive			
	material selection exercise.			
	4. Recommended criteria and protocols for choosing the disinfection			
	solutions for dental impressions. Case presentation and interactive			
	material selection exercise.			
	5. Recommended criteria and protocols for choosing non-noble and			
	noble dental alloys. Case presentation and interactive material selection			
	exercise.			
	6. Recommended criteria and protocols for choosing resin-based			
	composites used in the dental laboratory. Case presentation and			

	interactive material se	lection exercise				
		eria and protocols for cho	oosing ceramic systems			
		orations. Case presentati	-			
	material selection exercise.					
	8. Recommended criteria and protocols for choosing ceramic systems					
	for all-ceramic restorations. Case presentation and interactive material					
	selection exercise.	atoms. Cuse presentation				
		eria and protocols for che	posing the dental cements			
		-	0			
	for luting prosthetic restorations using conventional techniques. Case presentation and interactive material selection exercise.					
			hoosing the dental cement			
		estorations using adhesiv	0			
		active material selection	-			
	1	teria and protocols for cl				
		uting procedures. Case p	0 0 0			
	interactive material se	U 1	resentation and			
		teria and protocols for cl	poosing dual-curing			
		uting procedures. Case p				
	interactive material se		resentation and			
		teria and protocols for cl	poosing resin based			
		ental abutment teeth reco	e			
	-	active material selection				
	presentation and intera	active material selection	exercise.			
	14. Recommended criteria and protocols for the choice of fiber-					
		composites used for der				
		resentation and interacti				
	exercise.	resentation and interacti	ve material selection			
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Evaluation:	Written Exam	Practical Exam	Activity during the			
			semester:			
Percent of the final grade:	%	%	100 %			

WRITING THE LICENCE THESIS is performed according to the guide published on the university's website. This guide is available on the following link: http://www.umfcluj.ro/educatie-med-ro/studenti-mg-ro/licenta-med-ro.