„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Phisiopathology. Immunology**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Cristescu Cristina Daniela**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Cristescu Cristina Daniela**					
The discipline code	**DM 2.3.1**	The formative category of the discipline		**FD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**1**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**56**	Of which course hours	**14**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**100**		

Distribution of Time	**44 hours**
1. Deciphering and studying course notes	5
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	5
4. Additional documentation in the library	5
5. Specific training activity seminar and / or laboratory	5
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	5
8. Preparation of oral presentations	3
9. Preparation of final exam	6
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Phisiopathology. Immunology**		
Professional competences specific to the discipline	A. Useful in further development as a student: 1. The general concepts taught in the Pathophysiology course allow understanding the functioning of the body as a unitary whole. 2. The topic of the practical work allows knowledge of the limits of variation of normal values, of some laboratory and paraclinical investigations, concepts necessary for students in the following years, to master how to establish the positive and differential diagnosis of a disease. B. For the professional activity as a practicing physician: 1. By acquiring some course concepts and practical work, the future provider of medical services, as a result of knowing the normal, can: - assess the health status of the body and make an appropriate decision to provide the medical service that must be performed or that will be declined to other specialists due to the health status - realize that by performing the required medical service in a quality manner, as close as possible to physiological, it contributes to achieving secondary prophylaxis, preventing the occurrence of other systemic diseases, which are not complications of the suffering for which the medical act is requested.		
Transversal competencies	They form the basis of the minimum level of knowledge necessary to understand and master the topics of study disciplines, such as: pharmacology, pathological anatomy, medical semiology, internal medicine, surgery, etc.		
The general objective of the discipline	The ability to analyze and synthesize the results of functional and laboratory explorations necessary for a correct diagnosis.		
The specific objective of the discipline	Knowledge of the function of various organs and systems, their interrelationships. Knowledge of the physiology of vital organs as a basis for understanding pathophysiology and familiarity with the terminology used in the healthcare system		
ESCO competency 2261	Multitasks. **C**ontributes to continuity of care		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and classifies the mechanisms of disease production and the types of immune response, with particularities for dentistry/dental medicine.	The student/graduate correctly interprets and applies fundamental notions regarding the mechanisms of disease production and methods of investigating biological functions.	The student/graduate integrates fundamental notions and methods of investigating biological functions, formulates and assumes reasoned conclusions regarding the general mechanisms of disease production and the general principles of treatment.

The content of the course – Analytical Syllabus	**No. hours**
1 Normal state and the concept of disease	1
2 Inflammation	1
3 Pathophysiology of thermoregulation. Febrile reaction	1

4 Pathophysiology of pain	1
5 Pathophysiology of hemostasis	1
6 Post-aggressive systemic reaction	1
7 Shock	1
8 Heart failure. Hypertension	1
9 Acute renal failure. Chronic renal failure	1
10 Pathophysiology of oxygen deficiency	1
11 Pathophysiology of erythrocytes. Anemias	1
12 Pathophysiology of carbohydrate metabolism	1
13 Organization of the immune system. Antigen (definition, characteristics, antigenic determinants, types of antigens and their classification criteria, histocompatibility antigens)	1
14 Means of immune defense in the oral cavity. Immunological aspects of periodontal and gingival disease	1
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Classification of diseases. Etiological, contributing and risk factors. Observation sheet	3
2 Exploration of the inflammatory syndrome. Acute phase proteins. Interpretation of some analysis reports. Particularities of dental pulp inflammation	3
3 Febrile syndrome. Fever curves specific to certain diseases	3
4 Exploration of primary and secondary hemostasis. Changes in primary, secondary hemostasis and fibrinolysis	3
5 Control paper	3
6 Pathophysiology of lipid metabolism	3
7 Atherosclerosis	3
8 Pathophysiology of protein metabolism	3
9 Pathophysiology of phospho-calcium metabolism	3
10 Pathophysiology of carbohydrate metabolism	3
11 Control paper	3
12 Analysis and interpretation of test reports with various types of anemia	3
13 Renal failure - modification of biological parameters in failure, staging criteria	3
14 Practical exam	3
Minimal bibliography	
1. Course support 2025-2026	

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health
The course allows integration into a responsible professional environment, the development of applied research programs, being in line with the requirements of European university education through the permanent updating of information and therefore corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Free and interactive presentation in computer projection system (power point)
Laboratory	Interactive, verbal presentation and practical activities on the equipment; Verification of students' knowledge in interpreting biological results obtained in the

	laboratory; Participation in the laboratory after prior SSM training

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Training of skills related to laboratory activity: performing biochemical analyses, performing demonstrations of vital functions, understanding the main mechanisms of the body's functioning in the form of practical, demonstrative additions to the theoretical aspects presented in the course. The maximum number of justified absences per semester from practical work is 2; these will be recovered free of charge, according to the schedule agreed upon with the supervising teacher according to the "Titu Maiorescu University Charter" - Students who accumulate more than 4 absences from practical work during a semester will not be admitted to the final exam until the next exam session, after retaking the program of uncompleted applied activities with the appropriate fee - Failure to pass the practical exam excludes the appearance at the final exam. - Mastering specialized terminology and using it in context appropriately - Passing the theoretical knowledge test during the semester: - knowledge of laboratory principles and functional explorations for the given topic - knowledge and application of working methods for the given topic - knowledge of normal ranges of laboratory results and functional explorations - interpretation of functional explorations; interpretation of laboratory results and their synthesis in order to know the pathophysiological mechanism for establishing the diagnosis of diseases

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**50 %**
- the final answer at the practical exam at laboratory	**35 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**5 %**

Describe the practical ways of final assessment, E: Written work (descriptive)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Basic concepts that demonstrate understanding of the subject matter	Thorough mastery of the subject matter

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Microbiology (Bacteriology, Virology, Parasitology)**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Mitache Magdalena**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Mitache Magdalena**					
The discipline code	**DM 2.3.2**	The formative category of the discipline		**FD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**5**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**5**	Of which course hours	**2**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**70**	Of which course hours	**28**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**125**		

Distribution of Time	**55 hours**
1. Deciphering and studying course notes	13
2. Study after textbook, course support	6
3. Study of the indicated minimum bibliography	8
4. Additional documentation in the library	2
5. Specific training activity seminar and / or laboratory	8
6. Achievement homework, reports, essay, translations etc	1
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	12
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	3

13. Tutoriing	0
14. Examinations	2
15. Other activities	0

The name of the course	**Microbiology (Bacteriology, Virology, Parasitology)**
Professional competences specific to the discipline	• Correctly requesting bacteriological analyses necessary for establishing the diagnosis • understanding bacteriological results and their appropriate use in the treatment of the patient • establishing correct habits regarding the judicious use of antimicrobials based on understanding the phenomenon of antimicrobial resistance • knowledge of the normal flora of the oral cavity • knowledge of cariogenic, periodontopathogenic bacteria • knowledge of the mechanisms by which bacteria in the oral cavity cause disease Knowledge, understanding of the basic concepts, theories and methods of the field and area of specialization. Designing and deepening the fundamental notions in the field of dental medicine with reflection in the medical field, through • Knowledge of the nature and metabolic activity of microorganisms that can contaminate work surfaces and instruments in the dental office • Paying special attention to microbiological and hygienic-sanitary control at different stages of treatment in dental offices to prevent microbial contamination and comply with microbiological norms/standards. • Definition of the principles of human antibiotic therapy, of specific decontamination. Mastery of decontamination procedures (asepsis, disinfection, sterilization and antisepsis) • Use of basic knowledge to explain and interpret various types of concepts, situations, processes, projects, etc. associated with the field The student will acquire skills regarding the applicability of decontamination methods, mastering techniques for harvesting pathological products and biological food samples, bacteriological, parasitological and virological diagnostic methods. The student will acquire theoretical knowledge related to infectious diseases, etiological agents of infectious diseases (structure, habitat, pathogenicity factors, etiopathogenesis, etc.), specific manifestations in the maxillofacial area, prophylaxis, treatment. Suspicion/recognition of the etiology of viral, parasitic, fungal infections o correctly requesting the microbiology analyses necessary for establishing the diagnosis - understanding microbiological results and using them appropriately in the treatment of the patient - acquiring basic knowledge in the prophylaxis and treatment of viral infections - knowledge of current issues regarding emerging and reemerging viral infections
Transversal competencies	- teamwork skills, - oral and written communication skills, - respecting and developing professional values and ethics, - solving clinical problems and making correct therapeutic decisions
The general objective of the discipline	Acquiring knowledge about microbial biology, how microorganisms cause disease and the possibilities of preventing and treating infections caused by them
The specific objective of the discipline	1) Knowledge of - bacterial morphology, physiology and genetics - the ways in which bacteria cause diseases - the role of the immune system in defending against bacterial infections - understanding the diagnostic procedures used in bacterial infections, the factors that influence the diagnostic results, knowledge of the main indications for performing bacteriological diagnosis - Knowledge of the mechanisms by which antimicrobial substances exert their effect and the mechanisms by which bacteria develop resistance to antibiotics - Knowledge of the basic principles of immunization

	- Knowledge of some epidemiological elements - Obtaining basic knowledge (morphology, diseases caused, pathogenesis, immunity, mode of transmission, prevention and treatment possibilities) about bacteria involved in important human infections - Understanding the role of the normal flora of the body, the notions of colonization, portage and infection - Understanding major medical problems caused by bacteria: factors that lead to the emergence and spread of antimicrobial resistance, nosocomial infections, infections of immunosuppressed patients, bioterrorism - Mechanisms involved in the occurrence of dental caries, periodontitis 2) Knowledge of - viral, parasitic and fungal morphology, physiology and genetics - the ways in which they cause diseases - the role of the immune system in defending against viral/parasitic/fungal infections - Understanding the diagnostic procedures used in viral, parasitic and fungal infections, the factors that influence the diagnostic results, knowledge of the main indications for performing microbiological diagnosis - Knowledge of the mechanisms by which antimicrobial substances exert their effect - Knowledge of some elements of epidemiology - Obtaining basic knowledge (morphology, diseases caused, pathogenesis, immunity, mode of transmission, possibilities of prevention and treatment) about microorganisms - viruses, fungi, parasites - involved in important human infections - Understanding major medical problems caused by microorganisms (viruses, fungi and parasites)
ESCO competency 2261	Multitasks

Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and classifies pathogenic agents (bacteria, viruses, parasites) involved in disease production, with particularities for dental medicine.	The student/graduate correctly interprets and applies fundamental notions regarding the mechanisms of disease production and methods of investigating biological functions.	The student/graduate integrates fundamental notions and methods of investigating biological functions, formulates and assumes reasoned conclusions regarding the general mechanisms of disease production and the general principles of treatment.

The content of the course – Analytical Syllabus	**No. hours**
1 History of microbiology. Object and purpose of medical microbiology. Bacterial morphology	2
2 Structure of the bacterial cell. Chemical composition of bacteria. Bacterial metabolism. Growth and multiplication of bacteria. Action of physical, chemical and biological factors (antibiotics, bacteriocins, bacteriophage) on bacteria	2
3. Bacterial genetics. Bacterial variability. Pathogenicity characteristics of bacteria	2
4 Classification and nomenclature of bacteria. Gram-positive cocci (Staphylococcus, Streptococcus, Enterococcus). Gram-negative cocci (Neisseria meningitidis and Neisseria gonorrhoeae).	2
5 Aerobic Gram-positive bacilli: Genus Corynebacterium. Genus Bacillus. Aerobic Gram-negative, facultatively anaerobic bacilli: Pathogenic and conditionally pathogenic Enterobacteriaceae: Escherichia, Shigella, Salmonella, Yersinia, Klebsiella, Proteus	2
6 Curved Gram-negative bacilli: Genus Vibrio. Genus Campylobacter. Genus Helicobacter. Aerobic, non-fermentative Gram-negative bacilli: Pseudomonas aeruginosa. Gram-negative coccobacilli: Haemophilus	2

influenzae	
7 Spore-forming anaerobic germs (Genus Clostridium) and non-sporulating	2
8 Bacteria that are not classified by the Gram method: Genus Mycobacterium. Spirochetes: Treponema pallidum. Borrelia burgdorferi.	2
9 Normal flora of the body. Normal flora of the oral cavity. Oral ecosystem. Characteristics of the biofilm in dental plaque	2
10 Microflora involved in periodontitis	2
11 Microbial flora of dental caries	2
12 Etiology of dentoalveolar infections	2
13 Etiology of infections of the oral mucosa and salivary glands	2
14 Etiology of iatrogenic infections in relation to practice in dental offices	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. Hours**
1 Labor protection in the bacteriology laboratory. Decontamination in the bacteriology laboratory. Scheme of bacteriological diagnosis. Harvesting and transportation of pathological products.	3
2 Study of bacterial morphology. Native preparation. Smears. Simple staining. Gram staining. Ziehl-Neelsen staining. Neisser staining	3
3 Cultivation of microorganisms. Culture media. Seeding methods. Culture characters. Identification of bacteria based on biochemical and metabolic characters.	4
4 Testing the sensitivity of germs to the action of antimicrobial substances: antibiogram Identification of bacteria based on antigenic structure: agglutination reaction; ELISA, IF. Intradermal reactions. Detection of nucleic acids - hybridization, genomic amplification. Bacterial typing methods. Testing the pathogenicity of germs in vitro and in vivo (experimental disease)	4
5 Testing the sensitivity of germs to the action of antimicrobial substances: antibiogram	4
6 Laboratory diagnosis of infections caused by germs from the genera Staphylococcus, Streptococcus, Enterococcus, Neisseria	4
7 Laboratory diagnosis of infections caused by enterobacteria: Escherichia, Klebsiella, Proteus, Shigella, Salmonella, Yersinia.	4
8 Laboratory diagnosis of infections caused by germs from the genera Pseudomonas, Treponema, Mycobacterium, Clostridium.	4
9 Normal flora of the oral cavity. Determination of the number of oral lactobacilli	4
10 Study of the antimicrobial effect of dental materials, toothpastes	4
11 Microbial flora in periodontal diseases. Microbiology of dental caries.	4
Minimal bibliography	
Course support 2025-2026	

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health
Considering the increase in the number of patients with invasive and/or immunosuppressed interventions, vulnerable to bacterial infections, the emergence or re-emergence of some bacteria, it becomes essential to train future doctors in the field of microbiology, which ensures the acquisition of knowledge regarding the bacteria involved in infections, the principles of diagnosis, treatment and prophylaxis. • Paying special attention to microbiological and hygienic-sanitary control at different stages of treatment in dental offices to prevent microbial contamination and comply with microbiological norms/standards. It is important to know the normal flora of the oral cavity, to know cariogenic and periodontopathogenic bacteria, and the mechanisms by which bacteria in the oral cavity cause disease.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Power point presentation

Laboratory	Practical activity, oral presentation

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
The concepts taught to students in courses and practical work are correlated with scientific bibliographic information updated periodically through the use of specialized journals and multimedia/web sources corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Dentistry.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**60 %**
- the final answer at the practical exam at laboratory	**10 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**10 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E:
Practical Individual Exam, **E:** Written work (descriptive or test)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• minimum passing grade for practical assessments during the semester – minimum 5 • - minimum admission requirements for the final examination • grade 5 on the practical assessment during the semester • full attendance at practical work • attendance at 70% of courses - for passing the final assessment • MINIMUM PASSING GRADE: 5 (both for course material and practical work)	• correct, complete and reasoned answers to all the problems posed by the subjects. • correct answers to all existing questions, in the case of grid-type testing.

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Dental instrumentary**					
Didactic function, name and surname of the course holder	**Lecturer PhD Manea Ștefan**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Manea Ștefan**					
The discipline code	**DM 2.3.3**	The formative category of the discipline		**SD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**5**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**2**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**56**	Of which course hours	**28**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**125**		

Distribution of Time	**69 hours**
1. Deciphering and studying course notes	14
2. Study after textbook, course support	7
3. Study of the indicated minimum bibliography	5
4. Additional documentation in the library	5
5. Specific training activity seminar and / or laboratory	7
6. Achievement homework, reports, essay, translations etc	7
7. Preparation of control papers	5
8. Preparation of oral presentations	5
9. Preparation of final exam	5
10. Consultations	3
11. Documentation on the field	0
12. Documentation on the Internet	2

13. Tutoriing	1
14. Examinations	2
15. Other activities	1

The name of the course	**Dental instrumentary**		
Professional competences specific to the discipline	- Knowledge and understanding the concepts of the discipline; -Acquisition of solid theoretical knowledge about the equipment and instruments used in the dental office which is the basis of all specialized disciplines - Knowing each individual instrument and associating it with other instruments used in the dental office. -Identification and differentiation of each instrument based on individual characteristics and their use in certain stages - Creating specific skills for future practical work, developing and perfecting of the tactile sense.		
Transversal competencies	- The discipline represents an introduction to dental medicine, by presenting some specialty terms and notions that will be used along the studies, as well as in the practice of dental medicine. Instruments and dental equipment are the essence of the profession of dentist, the exact knowledge of each instrument, in order to differentiate and individualize the works according to the clinical situations specific to each individual case		
The general objective of the discipline	Acquisition of theoretical and practical notions related to all apparatus and instrumentation in the dental office		
The specific objective of the discipline	Acquiring the notions of using instruments and appliances in the dental office. - Knowing the instruments and appliances in detail according to the characteristics of each, to appreciate and differentiate the quality of the instruments and their arrangement in the dental office. - Linking to new acquisitions in the field. - Obtaining elementary skills of manipulating instruments and forming particularly important manual practice skills in the dental profession.		
ESCO competency 2261	Supervises dental staff		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, differentiates, and appropriately classifies dental instruments.	The student/graduate develops and applies the specialized professional knowledge acquired for the use of dental instruments in treating pathological changes, in order to restore the anatomical and physiological functions of the oro-maxillo-facial system.	The student/graduate identifies, localizes, differentiates, and describes pathological changes in the structures of the dento-maxillary apparatus and establishes the therapeutic approach and appropriate treatment stages, using dental instruments.

The content of the course – Analytical Syllabus	**No. hours**
1. The Dental Office.	2
2. Infection Control – instruments and equipment.	2
3. Ergonomics in Dentistry	2
4. Dental Radiography.	2
5. Basic Dental Instruments.	2

6. Local Anaesthesia.	2
7. Instruments and Sundries Used in Moisture Control. Instruments Used for Rubber Dam Placement.	2
8. Handpieces, Burs and Rotary Attachments.	2
9. Instruments Used in Basic Restorative Procedures. Instruments used in Endodontic Treatment	2
10. Hygiene and Periodontal Instruments. Orthodontic Instruments.	2
11. Surgical Instruments.	2
12. Instruments Used in Removable and Fixed Prosthodontics	2
13. The Dental Operating Microscope	2
14. Digital Dentistry	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. The Dental Office.	2
2. Infection Control – instruments and equipment.	2
3. Ergonomics in Dentistry	2
4. Dental Radiography.	2
5. Basic Dental Instruments.	2
6. Local Anaesthesia.	2
7. Instruments and Sundries Used in Moisture Control. Instruments Used for Rubber Dam Placement.	2
8. Handpieces, Burs and Rotary Attachments.	2
9. Instruments Used in Basic Restorative Procedures. Instruments used in Endodontic Treatment	2
10. Hygiene and Periodontal Instruments. Orthodontic Instruments.	2
11. Surgical Instruments.	2
12. Instruments Used in Removable and Fixed Prosthodontics	2
13. The Dental Operating Microscope	2
14. Digital Dentistry	2

Minimal bibliography

1. Dental Instruments: A Pocket Guide, 6th Edition, Linda Bartolomucci Boyd, 2018, Elsevier Health Sciences
2. Handbook of instruments in dentistry, Purushottam Singh Chauhan, 2018, CBS Publishers
3. Dental Instruments: A Pocket Guide to Identification, Melanie Mitchell, 2012, Lippincott Williams & Wilkins
4. Basic Guide to Dental Instruments, Carmen Scheller, 2006, Blackwell Publishing Ltd
5. Course Notes 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The practice of a dental practitioner is based not only on the theoretical and practical knowledge, but also on manuality, patience and consciousness that is acquired through specialty studies, started at the preclinical discipline Dental Instruments.

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	The multimedia projection of the material according to the analytical syllabus, accompanied by interactive programmed education, in order to form the practical experience of the acquired and learned theoretical notions
Laboratory	Practical demonstration by the assistant of all apparatus and instruments. Students under the supervision and assistance of the teacher and the dental technician receive information on the handling of devices and instruments.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

- to know the basic notions regarding the endowment of the dental office with the necessary equipment and instruments, - not to have more than 10% unjustified and unreclaimed absences from practical work, - to demonstrate that he has notions regarding the handling and use of the dental office equipment and instruments.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**60 %**
- the final answer at the practical exam at laboratory	**10 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**10 %**
- activity like homework / reports / essay / translation / projects etc.	**10 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E:

The practical exam consists of an oral examination of the acquired knowledge, in groups. At least 3 students participate in the examination, the holder of the discipline and the holder of the practical works. The final exam consists of a test: grid testing and open questions.

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• promoting the practical exam • promoting control papers and final test • recovering absences from practical work knowing the basic instruments used in the dental office.	• Knowing the instruments and appliances in detail according to the characteristics of each, to appreciate and differentiate the quality of the instruments and their arrangement in the dental office.

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THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Technology of dental prostheses I**					
Didactic function, name and surname of the course holder	**Lecturer PhD Antipa Cristiana**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Antipa Cristiana**					
The discipline code	**DM 2.3.4**	The formative category of the discipline		**SD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**5**

** If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**5**	Of which course hours	**2**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**70**	Of which course hours	**28**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**125**		

Distribution of Time	**55 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	3
4. Additional documentation in the library	2
5. Specific training activity seminar and / or laboratory	8
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	7
8. Preparation of oral presentations	0
9. Preparation of final exam	8
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	3
13. Tutoriing	2

14. Examinations	2
15. Other activities	0

The name of the course	**Technology of dental prostheses I**		
Professional competences specific to the discipline	Study of the elementary notions of the clinical and technical steps in making fixed dental restorations.		
Transversal competencies	The students may develop the team spirit through the hours of practical laboratory/proceedings, by creating skills in making the right decisions in applying the individualized prosthetic treatment for each patient in part, and by developing their manual skills, due to the completion of the practical proceedings stages and, last but not least, the satisfaction of something they did themselves.		
The general objective of the discipline	After the completion of the lectures and practical proceedings, students will have the necessary knowledge for: 1. Diagnosis of edentation. 2. Establishing a correct prosthetic treatment plan. 3. Making models of fixed dental prostheses (crowns and dental bridges). 4. Analysis of executed fixed prosthetic restorations. 5. Recognizing of all fixed prosthetic restorations. 6. Knowledges related with the clinical and technical steps in making fixed prosthetic restorations.		
The specific objective of the discipline	Students are trained in: - the biomechanics of fixed prostheses; - the laboratory phases; -the execution of phases on didactic phantoms in such a way that all theoretical notions will be closely related to practice.		
ESCO competency 2261	Maintains denture records		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, and correctly describes fundamental concepts regarding the types of dental prostheses, fabrication stages, laboratory techniques, and materials used. Understands principles of prosthetic design, the relationship between oral structures and prosthetic devices, as well as functional and esthetic criteria.	The student/graduate applies theoretical knowledge in the practical stages of fabricating dental prostheses. Selects and correctly uses instruments and equipment specific to dental technology. Analyzes and evaluates the quality of prosthetic work in relation to clinical and functional requirements.	The student/graduate shows responsibility in observing hygiene and safety standards in the dental technology laboratory. Demonstrates autonomy and rigor in the fabrication process and collaborates effectively with the medical team. Observes ethical and deontological principles in professional activity.

The content of the course – Analytical Syllabus	**No. hours**
1. Prosthetic restoration methods and technologies: Classification of fixed prosthetic restorations. Enumeration of the clinical and technical steps of achievement fixed prosthetic restorations obtained by heat-curing, barro-polymerization, light-curing, burning, casting, stamping and mixed technologies. Exemplifications.	2
2. Classification of fixed polymeric aesthetic crowns. Heat cured acrylic resin crowns: description, indications, contraindications, advantages, disadvantages, elements of prosthetic field, manufacturing steps.	2
3. Physiognomic crowns from light-curing and barro-cured resins: description, indications, contraindications, advantages, disadvantages, clinical and technical steps of achievement. All	2

ceramic crowns: description, types, indications, contraindications, advantages, disadvantages, technology and clinical and technical stages of manufacturing	
4. All covering crowns: description, classification, materials and methods of manufacturing. Metallic crown with total and guided thickness: indications, contraindications, advantages, disadvantages, elements of the prosthetic field, clinical and technical stages of manufacturing.	2
5. Mixed metal-polymeric crowns: description of partial and all physiognomical metal-polymeric crowns of heat- and barro-cured resins, indications, contraindications, advantages, disadvantages, clinical-technical steps and technology of realization.	2
6. Mixed metal-ceramic crowns: description of partial and total physiognomical metal-ceramic mixed crowns, indications, contraindications, advantages, disadvantages, technology of realization. Control paper	2
7. Inlays: Casting metallic inlays: generalities, classifications, indications, contraindications, advantages, disadvantages, types of cavities for inlays, clinical and technical stages of casting of metallic inlays, physiognomic inlays (polymeric and ceramic): Generalities, classifications, indications, contraindications, advantages, disadvantages, clinical and technical steps for the realization of polymeric and ceramic inlays. Onlays, Pinlayes, Pinladges: description, classification, manufacturing.	2
8. Dental posts: description, indications, contraindications, types of dental posts, technology of post realization	2
9. Dental bridges: Introduction, definition, characteristics, bridge components, advantages, disadvantages, indications, contraindications, factors which influencing the bridge design, indications of aggregation elements.	2
10. Partially edentulous field: Clinical forms of edentations (Cummer, Applegate, Kennedy, Costa). Principles pursued in bridge design: biofunctional, biomechanical and prophylactically principles	2
11. Special bridges: Physiognomic bridges with extension, total bridge, movable bridge, removable bridge, telescopic bridge, bridge on implants: definition, characteristics, components, manufacturing technology.	2
12. Temporary restaurations. Indications, materials, techniques.	2
13. Innovations in fixed prosthodontic workflows. Digital technologies in fixed prostheses.	2
14. Restorative materials options for CAD CAM restorations.	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Introduction in the study of dental crowns, generalities, classifications. Practical demonstration: gypsum models with fixed and mobile blunts. Students will casting the gypsum models with fixed blunts.	3
2. Heat-cured acrylic resin crowns: practical demonstration of the waxing the wax pattern and of packaging steps. Students will start manufacturing the wax pattern of aesthetic heat cured crown.	3
3. Heat cured acrylic resin crown: Practical demonstration of the technical steps of pattern, preparing heat cured acrylic resin and the heat curing steps. Students will complete the wax pattern of crowns of heat-cured acrylic resins.	3
4. Crown of barro- and light-cured resins: practical demonstration of the used devices, tools, materials and technologies in manufacturing a crown of light-curing and barro-curing composite resins.	3
5. Total and guided thickness metallic crowns: Practical demonstration of waxing the wax pattern of guided thickness metallic crown, spruing and investment of the full thickness metal crown. Students will begin to make the wax pattern of the full thickness metallic crown.	3
6. Control paper Students will complete the realization of the full-thickness metallic crown. Mixed metal-acrylic crowns: Practical demonstration of manufacturing the metallic component of the metal-polymeric mixed crown. Students will begin the manufacturing of the mixed metal-acrylic crown.	3
7. Students will finalize the wax pattern of metallic component of the metal-acrylic mixed crown and will realized the retention for the resin.	3

Mixed metal-ceramic crown: Practical demonstration of the wax pattern of metallic cape realization and the successive deposition of ceramic layers.	
8. Inlays: Practical demonstration of the technical steps for obtaining the wax pattern of a metallic inlay and of the embedding steps. Students will manufacture the wax pattern of an inlay in a Class I cavity after Black. Casted posts/pivots: exemplifying the technical steps of manufacturing. Practical demonstration of the technical stages of preheating, heating, alloy melting, casting, devesting, processing and finishing.	3
9. Dental bridges: Practical demonstration of manufacturing the wax pattern of the aggregation elements/crowns. Students will realize the wax pattern of the aggregation elements represented by the wax pattern of two total thickness metallic crowns on the model pillars	3
10. Dental bridges: types of relationships between the pontic with edentulous mucosa ridge, exemplifying; Practical demonstration of manufacturing the wax pattern of the metallic pontic. Students will manufacture the wax pattern of the metallic pontic.	3
11. Dental bridges: Practical demonstration of manufacturing the wax pattern of the metallic part of the pontic with cassettes and semi-cassettes, respectively the deposition of the retentions for the polymeric component part on the wax pattern of future mixed metal-polymeric bridge.	3
12. Dental bridges: Students will manufacture the metallic component of the metal pontic with semi-cassettes and cassettes. Practical demonstration of manufacturing the physiognomic component of heat-cured, barro-cured and light-cured resin. Two-piece bridges: exemplifying the clinical and technical steps in manufacturing, practical demonstration of the solidarization of the pontic to the aggregation elements.	3
13. Exemplification of the technical steps in making the physiognomic component of the heat-cured resin of the metal-polymeric mixed bridge. Cantilever bridges and total bridges: Practical demonstration of the manufacturing the metallic component for the bridge with distal extension and for the total bridge.	3
14. Practical exam	3
Minimal bibliography	
1. Duarte jr Sillas, Quintessence of Dental Technology 2020 2. Shillingburg HT Jr, Fundamentals of fixed prosthodontics Quintessence Publishing Co, Inc, 2012 3. Johnson Tony, Basics of dental technology: A step by step Approach. Blackwell Publ, 2015 4. Rosenstiel SF, Land MF, Fujimoto J; Contemporary Fixed Prosthodontics, 6th Ed, Elsevier, 2022. 5. Technology of Dental Prostheses I - Course Handouts, PDF format, current year of study 2025-2026.	

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health
The discipline Technology of dental prostheses is a necessary discipline, mandatory for a student to become a dentist. The informations aquired are in accordance with the current legislation and are suitable for the activities carried out at international level in the preclinical dentistry segment.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Multimedia projection of the material according to the analytical syllabus, accompanied by interactive programmed education, in order to form the practical experience of the acquired and learned theoretical notions
Laboratory	Practical demonstrations will be carried out and the students will realize wax patterns on plaster models.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Each student will manufacture:

-4 wax patterns of jacket polymeric crowns; -2 wax patterns of casted metallic crowns with total thickness; -2 wax patterns of casted metallic crowns with guided thickness; -1 wax patterns of mixed metallic polymeric Weisser crowns; -1 wax patterns of the metallic component of total metal dental bridges; -1 wax patterns metal dental bridge with cassettes.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**70 %**
- the final answer at the practical exam at laboratory	**15 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**5 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E:
Practical Individual Exam – preparation of an wax pattern for a fixed restauration
E: Mulitple choice test

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
The recovery of absences is mandatory. Passing the tests for theoretical and practical knowledge. Passing the practical exam is a requirement for admission to the final exam (final evaluation). Knowing the basics of fixed prostheses.(at least half of the answers has to be correct)	Attendance and active participation in practical activities. Passing the theoretical and practical tests with at least 9. Participation in interactive discussions during courses or practical activities. Detailed knowledge of technology of fixed prostheses.(at least 90% of the answers has to be correct)

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF MEDICAL-SURGICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Behavioral science. Medical psychology. Medical sociology. Medical communication**					
Didactic function, name and surname of the course holder	**Lecturer PhD Moțoescu Eduard**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Moțoescu Eduard**					
The discipline code	**DM 2.3.5**	The formative category of the discipline		**CD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**5**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**5**	Of which course hours	**2**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**70**	Of which course hours	**28**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**125**		
Distribution of Time					**55 hours**
1. Deciphering and studying course notes					10
2. Study after textbook, course support					10
3. Study of the indicated minimum bibliography					10
4. Additional documentation in the library					10
5. Specific training activity seminar and / or laboratory					0
6. Achievement homework, reports, essay, translations etc					0
7. Preparation of control papers					0
8. Preparation of oral presentations					0
9. Preparation of final exam					15
10. Consultations					0
11. Documentation on the field					0

12. Documentation on the Internet	0
13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Behavioral science. Medical psychology. Medical sociology. Medical communication**		
Professional competences specific to the discipline	Knowledge of the object of study of medical psychology, of the ways of delimiting the normal from the pathological, of the elements that shape mental health Understanding the conceptual models of the disease and the importance of the notions of psychohygiene and psychoprophylaxis Deciphering the relationship between the doctor, patient and psychologist in the clinic and the appropriate communication techniques with the patient to obtain his trust Familiarizing students with carrying out a reassuring dialogue for the patient, so that he has adequate compliance with the treatment Students' acquisition of the steps necessary for the correct establishment of a diagnosis, by carrying out a high-performance clinical interview Knowledge of the ways of carrying out a mental examination, the details that must be taken into account to create an accurate mental picture of the patient Recognition by the student of the main landmarks that build the personality of an individual, as well as of the patients with personality disorders, and mastering communication techniques with patients with such disorders		
Transversal competencies	Acquiring teamwork skills, oral and written communication skills, solving ethical problems and making decisions, recognizing and respecting diversity of opinions and multiculturalism, openness to the perspective of lifelong learning, respecting and developing moral values and professional ethics.		
The general objective of the discipline	Holistic approach to the patient, as a bio-psycho-social entity, without focusing only on the somatic component in medical practice		
The specific objective of the discipline	Understanding the conceptual models of the disease and the importance of the notions of psychohygiene and psychoprophylaxis Deciphering the relationship between the doctor, patient and psychologist in the clinic and the appropriate communication techniques with the patient to gain his trust Familiarizing students with carrying out a reassuring dialogue for the patient, so that he has adequate compliance with the treatment Students' acquisition of the steps necessary to correctly establish a diagnosis, by carrying out a high-performance clinical interview Knowledge of the methods of carrying out a mental examination, the details that must be taken into account to create a more realistic mental picture of the patient Student's recognition of the main landmarks that build the personality of an individual, as well as of patients with personality disorders, and acquisition of communication techniques with patients with such disorders.		
ESCO competency 2261	Interacts with healthcare users. Develops a collaborative therapeutic relationship. Responds to changing healthcare situations		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate describes, explains, and identifies roles and responsibilities, communication and relationship-building techniques, in real and virtual environments, within the professional team and in interaction with the patient	The student/graduate correctly, appropriately, and effectively demonstrates and implements patient-centered communication methods and techniques, to encourage the patient's active involvement and to establish trust-based relationships.	The student/graduate designs, plans, and applies communication and relationship strategies within the professional team, as well as in interaction with the patient and the patient's family, assuming an active role in their medical education.

	and/or the patient's family/caregivers, adapted to various categories: age, disabilities, etc.		

The content of the course – Analytical Syllabus	**No. hours**
1 The object of study of medical psychology Defining and describing the concepts of mental normality and illness Mental health assessed from multiple perspectives: way of adapting to the environment, development process, average or norm	4
2 Conceptual models of illness Mental disorder - expression of changes in cognitive functions Psychohygiene, psychoprophylaxis	4
3 Psychological conduct in clinical medicine: particularities of professional relationships between doctor, patient and psychologist; Communication - complex process of establishing the doctor-patient relationship Appropriate / inappropriate techniques of communication with the patient in the clinic	4
4 Dynamics of the development of the doctor-patient relationship Stages of the doctor-patient dialogue Obtaining therapeutic compliance from the patient; the concept of commitment Factors influencing non-compliance with treatment The roles of the psychologist in the clinic: diagnostician, psychotherapist, researcher.	3
5 Peculiarities of the process of establishing the diagnosis of a somatic or mental illness Models of doctor-patient relationship Conducting the clinical interview	3
6 Defining and describing the main mental functions Conducting the mental examination	3
7 Personality: the structural components of personality (aptitudes, temperament, character) The main types of personality disorders Ways of knowing and relating to different personality types. Persistent personality changes after a mental or somatic illness	3
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Introduction to the practice of clinical interview. General principles. Peculiarities of the clinical interview in dentistry 2 2 Seminar no. 3 2 Seminar no.	3
2 Defining the placebo effect Capitalizing on the placebo effect in medical practice Ways to augment the placebo effect The placebo effect in pain therapy	3
3 Non-verbal communication between doctor and patient: - a predominantly unconscious mode of communication, which is carried out at the level of affectivity - significant importance in the process of communication and establishing a good therapeutic relationship Methods and techniques for increasing the efficiency of doctor-patient communication, which is highlighted by a good therapeutic relationship	3
4 Ways to arrange the dental office according to the principles of communication through the arrangement of space (proxemic principles) - suggestions, alternatives	3
5 Ways to communicate a diagnosis that implies an unfavorable chronic evolution or an inauspicious prognosis	3
6 Ways to increase or maintain long-term compliance with treatment	3
7 Ways to describe personality. The Big Five model of personality.	3
8 Projective tests used in the clinic to determine patients' personality traits (tree test, color test, inkblot test) - overview, principles of application	3
9 Personality disorders. Ways of relating to patients with personality disorders	3
10 Presentation of scales used in the clinic to quantify the level of anxiety (HAM-A)	3
11 Presentation of scales used in the clinic to quantify the level of depression (HAM-D)	3

12 Presentation of scales used in the clinic to quantify the level of mania (YMRS)	3
13 Presentation of scales used in the clinic to quantify the level of stress (Holmes and Rahe Scale, DSM III Scale)	3
14 Presentation of neuroimmunophysiological mechanisms through which mental stress acts to induce psychosomatic conditions (cardiac ischemia, gastric ulcer, psoriasis, etc.)	3

Minimal bibliography

1.Ayers S.,De Visser R., Psychology for Medicine and Healthcare , Second Edition, SAGE Publications Ltd, 2017
2. Goldstein G., Allen D. N., De Luca J., Handbook of Psychological Assessment, Fourth Edition, Elsevier Ltd., 2019
3. Ray W.J., Abnormal Psychology, Sage Publications, Inc, 2020 6. Sanderson C.A., Health Psychology: Understanding the Mind-Body Connection, Third Edition, Sage Publishing, 2018
4. Van Teijlingen E., Humphris G., Psychology and Sociology Applied to Medicine, 4th Edition, Elsevier Health, 2019
5. Wachholtz A., Clinical Health Psychology, Cognella Academic Publishing, 2019
6. Course support 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The practical aspects and ethical guidelines of the student's future medical profession will be constantly taken into account.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	The course is taught in an interactive manner, with the support of PowerPoint presentations of the main ideas.
Laboratory	Each seminar is preceded by the expression of a written, reasoned point of view of the students regarding the topic of discussion; the expression of the point of view, as well as its way of argumentation, will be evaluated, and will be part of the student's final evaluation.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

Active attendance at a minimum of 60% of the seminars held during the semester;
Demonstration through periodic verification during the seminars of the acquisition of basic knowledge in the field of medical psychology;
Proving appropriate behavior during the seminars;

For the final grade is taken into account	Total = 100%
- the answer at the exam / final evaluation	**50 %**
- the final answer at the practical exam at laboratory	**0 %**
- periodic testing by control papers	**20 %**
- continuing testing during the semester	**20 %**
- activiry like homework / reports / essay / translation / projects etc.	**10 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: written paper (descriptive), for 2 hours, on two topics presented in the course or seminar

Minimum requirements for 5 grade (Or how to assign 5 grade)	Minimum requirements for 10 grade (Or how to assign 10 grade)
Minimum 60% attendance at courses and seminars;	Active attendance at courses and seminars held during

Demonstration through final verification of the acquisition of a satisfactory level of knowledge following the hearing courses and participation in seminar papers; Demonstrate appropriate behavior during classes and seminars	the semester; Demonstration through final verification of the acquisition of a high level of knowledge in the field of behavioral sciences; Proving appropriate behavior during classes and seminars; Involvement in activities such as designing essays, reports, etc.

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Genetics**					
Didactic function, name and surname of the course holder	**Assist. Prof. PhD Petruț Ștefana**					
Didactic function, name and surname of the laboratory holder	**Assist. Prof. PhD Petruț Ștefana**					
The discipline code	**DM 2.3.6**	The formative category of the discipline		**FD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**1**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**56**	Of which course hours	**14**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**100**		

Distribution of Time	**44 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	10
4. Additional documentation in the library	4
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	10
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Genetics**		
Professional competences specific to the discipline	Correct use of concepts in the field of genetics. Understanding the mechanisms of occurrence of genetic abnormalities. Knowledge of the main genetic syndromes, mechanisms of genetic transmission, management of genetic diseases.		
Transversal competencies	Demonstrate concern for professional development by training critical thinking skills; Demonstrate involvement in scientific activities; Demonstrate the ability to work in a team. Have the ability to self-assess. Have ethical behavior.		
The general objective of the discipline	To become familiar with the main concepts of human genetics and their implications in human pathology.		
The specific objective of the discipline	To correctly capture the specific aspects of human genetics. To understand the basic notions regarding the mechanisms of occurrence of genetic diseases, the techniques for investigating genetic anomalies, the main genetic syndromes.		
ESCO competency 2261	Multitasks		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and classifies mechanisms of disease production, risk factors in disease production, and the development of genetic approaches, with particularities for dentistry/dental medicine.	The student/graduate correctly interprets and applies fundamental notions regarding the mechanisms of disease production and methods of investigating biological functions.	The student/graduate integrates fundamental notions and methods of investigating biological functions, formulates and assumes reasoned conclusions regarding the general mechanisms of disease production and the general principles of treatment.

The content of the course – Analytical Syllabus	**No. hours**
1 Pedigree. How to interpret a pedigree. Modes of transmission. Penetrance and expressivity. Mosaicism. Problems related to the interpretation of a pedigree	1
2 Structure of human chromosomes. Elements common to all chromosomes. Elements specific to each chromosome. Elements specific to some chromosomes. Behavior of chromosomes during cell division.	1
3 Studying human chromosomes. How chromosomes can be studied - classical and molecular cytogenetics techniques: karyotyping; immunofluorescence in situ hybridization technique (FISH), comparative genomic hybridization technique by microarray (arrayCGH). Indications, advantages and disadvantages of each technique	1
4 Numerical and structural chromosomal abnormalities. Variations in the number of copies. Balanced and unbalanced anomalies. Constitutional and mosaic anomalies	1
5 Chromosomal syndromes. Down syndrome. Edwards syndrome. Patau syndrome. Cri-du-chat syndrome. Wolf-Hirschhorn syndrome. Turner syndrome. Klinefelter syndrome	1
6 Microdeletion syndromes. Angelman syndrome. Prader-Willi syndrome. Williams-Beuren syndrome. DiGeorge syndrome	1

7 Mendelian analysis of normal and pathological characters in humans. Mendelian laws. Autosomal dominant and recessive inheritance. Autosomal and recessive X-linked inheritance. Y-linked inheritance	1
8 Structure of nucleic acids. Gene structure – exons and introns. Translation and transcription. The epigenome	1
9 How to study a patient's DNA. Nucleic acid hybridization. Polymerase chain reaction (PCR). Types of PCR. Indications, advantages, limitations	1
10 Gene mutations. Deletion or duplication of a gene. Disruption of a gene. Mutations that affect transcription. Mutations that affect splicing. Mutations that cause translation errors. Mutations with loss of function or gain of function. Phenotype-genotype correlations	1
11 Studying gene mutations. Sequencing – types of sequencing, indications, interpretations.	1
12 Teratogenesis. Teratogenic factors and effects. Teratogenic mechanisms. Teratogenic agents and their phenotypic effects	1
13 Population genetics. Genetic structure of the population. Hardy-Weinberg law. Genetic markers in population studies. Factors that modify the genetic balance of the population. Heterozygous status. The “founder” effect.	1
14 Genetic services offered to families with genetic diseases. The importance of genetic diagnosis. Risk assessment and genetic counseling. The role of dysmorphological examination. Genetic testing – prenatal and postnatal diagnosis. Management of genetic diseases	1
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. Hours**
1 Family survey. Method technique. Genealogical record preparation.	3
2 Family tree method. Technique. Conventional signs. Interpretation.	3
3 Normal human karyotype. Human karyotype preparation.	3
4 Numerical and structural chromosomal aberrations. Types. Mechanisms. Nomenclature. Demonstrations. Chromosomal band analysis. Types of chromosomal bands. Detection methods. Importance of chromosome band study for human pathology.	3
5 Sex chromatin. Methods for detecting sex chromatin. Identification of genetic sex. Applications in medicine. “F” corpuscle.	3
6 Chromosomal syndromes. Recognition of the most common chromosomal syndromes based on characteristic phenotypic aspects	3
7 Molecular cytogenetic techniques (FISH, arrayCGH). Microdeletion syndromes – recognition of the most common microdeletion syndromes based on characteristic phenotypic aspects	3
8 Study of meiosis in humans. Phases of meiotic division. Importance of studying meiosis. Examples of normal and pathological situations	3
9 Mendelian transmission. Mendelian laws. Monohybridization. Dihybridization. Polygeny. Normal and pathological characters	3
10 Erythrocyte genetic systems in humans. AB, Hb, Rh genetic system. Problems. Genetic lineage	3
11 Biometric assessment by ontogenetic periods. Points, diameters, cephalic and somatometric indices. Constitutional types and medical implications	3
12 Analysis of dermatoglyphics. Digital and palmar dermatoglyphics. Dermatoglyphosates and plioses in genetic diseases.	3
13 Genetic diseases. Mechanisms of occurrence. Investigation techniques. Case examples.	3
14 Genetic consultation and genetic advice. Prenatal genetic investigation - amniocentesis, ultrasound, triple test. Postnatal genetic investigation. Frequency of genes in the population.	3

Minimal bibliography
Course support 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health
The knowledge acquired after completing this discipline will facilitate the understanding of the etiopathogenic mechanisms of various genetically determined diseases in human pathology; at the same time, they can be a starting point for students' participation in scientific research in the field of biomedical sciences.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Transmitting information, respectively explaining it using Power Point presentation mode; interactive exercises: presentations and case studies
Laboratory	Use of specific informative teaching materials. Presentation of laboratory concepts in PowerPoint format with examples specific to the discipline.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
- Attendance at all laboratories during the semester. - Mastery of all concepts taught in the laboratory. - Active participation during the laboratory. - Participation in periodic testing with a minimum score of 5.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**60 %**
- the final answer at the practical exam at laboratory	**20 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Written work (test)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• completing periodic tests through control papers with correct final answers, respectively obtaining satisfactory scores during these tests throughout the semester • correctly completing some topics in the final exam	• Correct completion of all requirements for the final exam • If applicable, the student who participated in activities such as reports/essays/translations receives 20% of the final grade

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Pathologic anatomy**					
Didactic function, name and surname of the course holder	**Lecturer PhD Pechianu Cătălin**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Pechianu Cătălin**					
The discipline code	**DM 2.4.7**	The formative category of the discipline		**FD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**1**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**56**	Of which course hours	**14**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**100**		

Distribution of Time	**44 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	10
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	14
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Pathologic anatomy**		
Professional competences specific to the discipline	The ability to use specialized terminology appropriately and in context. Knowledge of microscopic and macroscopic changes occurring at the level of organs, apparatuses and systems in various pathologies. The ability to be able to equate the acquired knowledge in other education systems and to successfully and efficiently integrate graduates of the study program into the labor market.		
Transversal competencies	General and personal – knowledge and study being the essential element of education during the activity. Active participation in scientific events in the field. Use of knowledge through exchange of experience. Own professional development		
The general objective of the discipline	Understanding and mastering the fundamental notions of general pathology (circulatory disorders, dystrophies, non-specific and specific inflammations, tumors). Presentation of histopathological lesions in correlation with physiopathological mechanisms and clinical manifestations.		
The specific objective of the discipline	It is proposed that upon completion of the course, students should be able to: Know precisely the main lesions from an anatomopathological point of view and understand the main histopathological changes as well as their mechanisms of production in the most important diseases of the body. Use the terminology specific to diseases correctly. Be able to describe and comment from an anatomopathological point of view the diseases studied in the clinic. Be able to interpret a histopathological analysis report.		
ESCO competency 2261 **Learning outcomes**	Multitasks		
	Knowledge	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and classifies mechanisms of disease production, with particularities for dentistry/dental medicine.	The student/graduate correctly interprets and applies fundamental notions regarding the mechanisms of disease production and methods of investigating biological functions.	The student/graduate integrates fundamental notions and methods of investigating biological functions.

The content of the course – Analytical Syllabus	**No. hours**
1 Introduction to the study of pathological anatomy. Pathological processes - mechanisms of adaptation and cell/tissue death. Atrophy and hypertrophy, metaplasia, hyperplasia, dysplasia; processes of necrosis and necrobiosis.	1
2 Dystrophic processes: generalities, fundamental cellular alterations, irreversible and reversible processes. Protein dystrophies, dystrophies due to metabolic disorders of nucleoproteins, dystrophies of glycoproteins and scleroproteins, colloid dystrophy, dystrophies of endo and exogenous pigments, fatty dystrophy, carbohydrate and mineral dystrophies	1
3 Inflammation: generalities, anatomoclinical classification, varieties of nonspecific inflammations:	1

predominantly exudative inflammations, abscess and phlegmon; predominantly proliferative, diffuse and circumscribed inflammations, granuloma, granulation tissue; predominantly parenchymal, predominantly necrotic inflammations; healing processes in inflammations; etiopathogenesis, characteristics of acute, subacute and chronic inflammation. Specific inflammations: TB, syphilis: macro and microscopic elementary lesions, acquired syphilis, congenital syphilis	
4 Circulatory disorders: active hyperemia, blood stasis, ischemia and anoxia, thrombosis; Disseminated coagulation syndrome, embolism, infarction, infarction, hemorrhages, lymphatic edema, exudate, transudate, lymphorrhagia, shock.	1
5 Tumor pathology. Generalities. Characteristics of cell proliferation in tumors. Characteristics of the neoplastic cell. Etiopathogenesis and biology of tumor processes. Anatomopathological methods of investigation in tumor diagnosis. Classification. Benign epithelial tumors. Malignant epithelial tumors. Benign and malignant connective tumors. Dysembryoplastic tumors.	1
6 BMF Pathology - Head and Neck Pathology. Stomatitis, tonsillitis, inflammations and tumors of the salivary glands. Diseases of the oral cavity, pharynx, larynx,. Benign and malignant tumors.	1
7 Diseases of the digestive system, adnexa and peritoneum. Pathology of the esophagus: malformations, esophagitis, stenoses and tumors. Pathology of the stomach: malformations, gastritis, gastric ulcer, tumors. Pathology of the small intestine 2 and colon: malformations, enteritis and enterocolitis, ulcerohemorrhagic enterocolitis, terminal ileitis, appendicitis, intestinal TB, intestinal lesions in typhoid fever, dysentery, proctitis, ileus, tumors	1
8 Pathology of the liver and biliary tract. Hepatic dystrophy. Hepatitis. Cirrhosis. Liver abscess. Malformations of the biliary tract. Cholelithiasis. Angiocolitis. Cholangitis. Cholecystitis. Tumors of the liver and biliary tract. Pathology of the pancreas. Cystic fibrosis. Pancreatitis. Tumors. Peritoneal pathology. Peritonitis. Tumors.	1
9 Cardiovascular pathology. Endocarditis. Cardiomyopathies. Ischemic cardiopathy. Pericarditis. Vascular lesions: arteriosclerosis, arteritis, thrombangeitis, vascular syphilis, aneurysms, thrombophlebitis and phlebothrombosis.	1
10 Respiratory pathology. Frank lobar pneumonia. Bronchopneumonia. Interstitial pneumonia. Pulmonary suppurations, pulmonary gangrene. Pulmonary tuberculosis. Diffuse interstitial pulmonary fibrosis, pneumoconiosis. Bronchopulmonary tumors. Pleural pathology: pleurisy, pleurisy, pleural tumors.	1
11 Pathology of the urinary system. Malformations. Tubular and interstitial glomerular nephropathies, renal tuberculosis, nephroangiosclerosis, hydro and pyonephrosis. Renal lithiasis. Renal tumors. Inflammations and tumors of the urinary bladder.	1
12 Pathology of the male and female genital system. Malformations of the female genital system. Dyshormonal disorders of the endometrium. Endometriosis. Endometritis. Cervicitis. Cervical dysplasias	1
13 Pathology of the reticulohistiocytic system. Specific and nonspecific reticulitis. Reticulosis. Besnier-Boeck-Schaumann disease. Thesaurismosis. Tumors. Pathology of hematopoiesis. General concepts. Anemias. Polycythemia. Thrombocytopenia and hemorrhagic syndromes. Leukopenia.	1
14 Pathology of the endocrine system. Thyroid: thyroiditis, goiter, Basedow's disease, myxedema, tumors. Parathyroid: adenomas, fibrocystic osteodystrophy. Pituitary: anterior pituitary adenomas. Adrenal: TB, Addison's disease, tumors.	1
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Introduction to the study of pathological anatomy. Pathological processes - mechanisms of	3

adaptation and cell/tissue death. Techniques used in the study of pathological anatomy.	
2 Dystrophic processes: fundamental cellular alterations, irreversible and reversible processes	3
3 Inflammation: generalities, morphopathological classification, varieties of non-specific and specific inflammations: elementary macro and microscopic lesions.	3
4 Circulatory disorders: active hyperemia, blood stasis, ischemia and anoxia, thrombosis; embolism, infarction, infarction, hemorrhages, lymphatic edema, exudate, transudate, DIC, shock.	3
5 Tumor pathology. Characteristics of the neoplastic cell. Classification. Benign epithelial tumors. Malignant epithelial tumors. Benign and malignant connective tumors.	3
6 BMF Pathology - Head and neck pathology. Stomatitis, tonsillitis, inflammations and tumors of the salivary glands. Diseases of the oral cavity, pharynx, larynx. Benign and malignant tumors.	3
7 Diseases of the digestive system: Pathology of the esophagus: malformations, esophagitis, stenosis and tumors. Pathology of the stomach: malformations, gastritis, gastric ulcer, tumors. Pathology of the small intestine and colon: malformations, enteritis and enterocolitis, ulcerative hemorrhagic enterocolitis, terminal ileitis, appendicitis, intestinal tuberculosis, tumors.	3
8 Patologia ficatului si cailor biliare. Distrofia hepatica. Hepatita. Ciroza. Abcesul hepatic. Litiaza biliara. Angiocolite. Colangite. Colecistite. Tumorile ficatului si cailor biliare. Patologia pancreasului. Mucoviscidoza. Pancreatita acuta necrotico-hemoragica.	3
9 Patologia aparatului cardiovascular. Endocardite. Cardiomiopatii. Cardiopatia ischemica. Pericardite. Leziuni vasculare: arterioscleroza, arterite, anevrisme, tromboflebita.	3
10 Patologia aparatului respirator. Pneumonia franca lobara. Bronhopneumonia. Pneumonii interstitiale. TBC pulmonar. Tumori bronhopulmonare. Patologia pleurei: pleurite, pleurezii, tumori pleurale	3
11 Patologia aparatului urinar. Malformatii. Nefropatii glomerulare, TBC renal, nefroangioscleroza. Litiaza renala. Tumori renale. Inflamatiile si tumorile vezicii urinare.	3
12 Patologia aparatului genital masculin si feminin. Malformatii.Endometrioza. Endometrite. Cervicite. Displazii cervicale.	3
13 Patologia sistemului reticulohistiocitar. Reticulite specifice si nespecifice. Reticuloze. Tezaurismoze. Tumori. Patologia hematopoezei. Trombopenii si sindroame hemoragipare. Leucopenii.	3
14 Patologia sistemului endocrin. Tiroida: tiroidite, gusi, boala Basedow, mixedem, tumori. Paratiroida: adenom. Hipofiza: adenoamele hipofizei anterioare. Suprarenala: TBC, boala Addison, tumori.	3

Minimal bibliography

1. Robbins basic pathology (10th ed.). Kumar, V.,Abbas, A. K., Aster, J. C. Philadelphia, PA: Elsevier Saunders. 2017.
2. Rubin R., Strayer D.S., Rubin E. - Rubin's pathology: Clinicopathologic Foundations of Medicine, eighth edition, Wolters Kluwer Health, 2019.
3. American Joint Committee on Cancer - AJCC Cancer Staging Manual. 8th ed.: Springer International Publishing AG, 2016.
4. Course support 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The course allows integration into a responsible professional environment, the development of applied research programs, being in line with the requirements of European university education through the permanent updating of

information and therefore corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Video projector. Powerpoint presentation with iconography. Interactive course. Clinico-pathological correlations.
Laboratory	Interactive presentation of histopathological lesions according to the syllabus; macroscopic and microscopic slides are presented integrating morphopathological lesions into clinical pathology; answers to students' questions

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Mandatory attendance at practical work with the possibility of retaking a maximum of three practical works per semester. Passing the practical exam is mandatory in order to be admitted to the final exam.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**70 %**
- the final answer at the practical exam at laboratory	**15 %**
- periodic testing by control papers	**5 %**
- continuing testing during the semester	**5 %**
- activiry like homework / reports / essay / translation / projects etc.	**5 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: written work (descriptive, grid test and/or problems)	
Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Passing the practical exam and solving 50% of the topics in the written paper	Passing the practical exam and solving 90% of the topics in the written paper

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Pharmacology**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Seiman Corina**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Seiman Corina**					
The discipline code	**DM 2.4.8**	The formative category of the discipline		**FD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**1**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**56**	Of which course hours	**14**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**100**		

Distribution of Time	**44 hours**
1. Deciphering and studying course notes	15
2. Study after textbook, course support	15
3. Study of the indicated minimum bibliography	5
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	9
9. Preparation of final exam	0
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Pharmacology**
Professional competences specific to the discipline	At the end of the course, students should: (1) make a critical evaluation of different medications; (2) make a correct history regarding the various medications taken by patients; (3) extrapolate and interpret the principles of pharmacokinetics in the clinical evaluation of the patient; (4) recognize and report the various adverse reactions or drug interactions; (5) have solid knowledge regarding the possibilities of pain treatment; (6) recognize and know the possibilities of treatment of drug abuse and intoxication; (7) have the knowledge necessary for a rational prescription of drugs.
Transversal competencies	Transversal skills, acquired by deepening specific knowledge, will aim at: • carrying out research projects, developing scientific articles or studies, dissertations, etc.; • efficient use of informational, scientific and specialized resources regarding professional careers; • application of effective interpersonal communication techniques in relation to specialists in the field and patients. awareness of the need for continuous training; efficient use of learning resources and techniques for personal and professional development.
The general objective of the discipline	In class: The central goal of the course is to acquire the basic concepts of pharmacology and to assimilate the uses of the main classes of drugs currently used in medical practice. The general goals of the course are as follows: Learning the basic scientific concepts and principles that will serve as a foundation for understanding pharmacology: • understanding the fundamental scientific principles of drug action and the mechanisms by which drugs can produce their pharmacological effect • understanding the fundamental principles of pharmacokinetics, related to the absorption, distribution, metabolism and elimination of drugs from the body • understanding the reasoning behind establishing different dosing regimens in certain categories of patients • understanding how patient-specific and genetic characteristics can affect the response to a certain class of drugs • understanding the scientific basis underlying how two different drugs can interact in the body and can cause unwanted effects. Understanding the pharmacology and clinical use of major classes of drugs: drugs that affect the autonomic nervous system; anesthetics and analgesics; drugs for cardiovascular system diseases; drugs that affect the respiratory system; antibiotics; drugs used in the treatment of mental disorders; drugs that affect the immune system; drugs that affect the endocrine system; food supplements and herbal medicines; antibiotic, antiviral drugs and drugs used in the treatment of cancer. In practical work: - acquiring the notions of medical prescription and the preparation of magistral and standardized preparations; applying the theoretical notions acquired in the course by prescribing recipes.
The specific objective of the discipline	At the end of the course, the student should have acquired specific aspects related to each class of drugs and each drug in particular as follows. • indications – in what circumstances is the drug used • mechanism of action – what is the scientific basis underlying its action • pharmacokinetics – are there factors such as absorption, distribution, metabolism or elimination that can affect the clinical effects of the drug in categories of patients? • adverse effects – are there relevant side effects that can negatively affect the patient's health? • contraindications – under what circumstances

	should a certain drug not be administered to a certain category of patients drug interactions – are there possible interactions with concomitant medication that could affect the efficacy and bioavailability of the drug.		
ESCO competency 2261	Writes prescriptions for medications in dentistry		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and develops pharmacological approaches, with particularities for dentistry/dental medicine.	The student/graduate correctly interprets and applies fundamental notions regarding the mechanisms of disease production and methods of investigating biological functions.	The student/graduate integrates fundamental notions and methods of investigating biological functions, formulates and assumes reasoned conclusions regarding the general principles of treatment.

The content of the course – Analytical Syllabus	**No. hours**
1 Definition of the drug, definition of pharmacology, brief history of pharmacology, branches of pharmacology and their explanation. Types of clinical trials. Medicinal preparations. Classification of drugs. Orphan drugs. Generic drugs. Composition of the medicinal preparation. Name of drugs. Time and optimal conditions of drug administration.	1
2 General pharmacokinetics: absorption, distribution, biotransformation and elimination. Main pharmacokinetic parameters	1
3 Elements of general pharmacodynamics. Mechanisms of action at the molecular, cellular, physiological systems and whole organism levels. Agonists, antagonists. Pharmacological receptors. Drug interactions. Elements of pharmacotoxicology. Adverse reactions – definition, evaluation, classification, treatment	1
4 Pharmacology of regulatory and control systems. SNV medication. Cholinergic medication.	1
5 Local anesthetics. CNS medication: General anesthetics	1
6 Analgesics, antipyretics, anti-inflammatories. Medication for gout. Medication for rheumatoid arthritis. Glucocorticoids (cortisone medication). Opioid analgesics and opioid antagonists. Histamine and antihistamines. Antidiabetic medication	1
7 Central motor inhibitors (depressants): Antiepileptics, Antiparkinsonians, Central muscle relaxants. Hypnotics, sedatives, anxiolytics (minor tranquilizers). Neuroleptics. Antidepressants and lithium. Centrally stimulating medication	1
8 Cardiovascular medication: cardiac tonic medication. Antiarrhythmic medication. Medication in ischemic heart disease (antianginal medication).	1
9 Cardiovascular medication: antihypertensive medication. Peripheral vasodilators (antiischemic). Hypolipidemic medication. Antianemic medication. Colloidal plasma substitutes. Hemostatics. Antithrombotic medication.	1
10 Respiratory medication: antitussives, expectorants, antiasthmatics, nasal decongestants, antihistamines	1
11 Digestive medication: Antiulcers; Antispasmodics for the gastrointestinal muscles; Antiflatulents; Antiemetics; Laxatives and purgatives; Antidiarrheals; Digestive ferments; Cholagogues	1
12 Antibiotics: classification, antibiotic resistance, beta-lactam antibiotics (penicillins, cephalosporins, monobactams and carbapenems). sulfonamides, trimethoprim, quinolones, macrolides and lincosamides, tetracyclines, chloramphenicol, aminoglycosides	1

13 Polypeptide antibiotics. Antituberculosis medication. Leprosy medication. Antifungals. Antivirals (antiinfluenza antiviral agents, antivirals active against herpes virus, antivirals active against hepatitis viruses, antivirals active against human immunodeficiency virus)	1
14 Cancer therapy: types of therapies, cytotoxic toxicity, classification of cytotoxics.	1
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Generalities: definition of the drug, active substance, excipients. Drug names. Concepts of experimental and clinical research.	3
2 Pharmacopoeia. Elements of legislation in the field of drugs and drug authorization	3
3 Solid and semi-solid drug forms. Liquid and gaseous drug forms.	3
4 Prescription or medical prescription: parts of the prescription; rules for prescribing magistral and standardized preparations. Examples of magistral prescription. Optimal time and conditions for drug administration	3
5 Drug research. Experimental models in pharmacological research. SNV prescription: e.g. prescription of sympathomimetics, sympatholytics	3
6 SNV prescription: e.g. prescription of parasympathomimetics, parasympatholytics	3
7 CNS prescription: e.g. prescription of hypnotics, sedatives. prescription of anxiolytics, antipsychotics	3
8 Prescription: analgesics, antipyretics, anti-inflammatories. glucocorticoids	4
9 Prescription of antiarrhythmic cardiac stimulants, ischemic cardiopathy medication	3
10 Antihypertensive prescription. Prescription of hypolipidemic and antianemic medication	3
11 Prescription of digestive system medication and respiratory medication.	4
12 Prescription of antibiotics	4
13 Intermediate paper II and Prescription of antibiotics - continued	3

Minimal bibliography

1. Richard A Harvey, Lippincott Farmacologie Ilustrata, Wolters Kluwer Health, coeditie pt limba romana cu Editura Medicala Callisto, 2013 .
2. Karen Whalen, Lippincott Illustrated Reviews: Pharmacology Seventh Edition, Lippincott Williams&Wilki 2018
3. Course support 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Transmitting information, respectively explaining it using a Power Point presentation format..
Laboratory	Explaining medical prescriptions. Prescribing prescriptions using an interactive way of working with students

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

- mastering the concept of medical prescription; - mastering the concept of magistral and standard preparation; - applying the theoretical knowledge acquired in the course, prescribing different types of recipes; - proving that they managed to master the information transmitted by completing three types of seminars, namely: verification of the concepts of general pharmacology, verification of the concepts of SNV, verification of the concepts of device

medication.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**70 %**
- the final answer at the practical exam at laboratory	**Admitted/rejected acceptance condition for the final testing of the acquired knowledge**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**10 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: written paper (multiple choice test), individual practical exam, medication prescription and project (practical laboratory work).

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Assimilation of pharmacology elements and correct prescription of the two recipes according to the requirements Correct completion of at least 50% of the topics in the final exam	Assimilation of pharmacology elements and correct prescription of the two recipes according to the requirements. Presentation of a report according to the requirements or participation in a student-level research project Correct completion of at least 95% of the topics in the final exam

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF MEDICAL-SURGICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Health promotion**					
Didactic function, name and surname of the course holder	**Assoc.Prof. Ph.D. Rusu Elena**					
Didactic function, name and surname of the laboratory holder						
The discipline code	**DM 2.4.9**	The formative category of the discipline		**DD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**C**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**2**	Of which course hours	**2**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**28**	Of which course hours	**28**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		

Distribution of Time	**22 hours**
1. Deciphering and studying course notes	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	5
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	7
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Health promotion**		
Professional competences specific to the discipline	Learning health promotion norms		
Transversal competencies	Learning the prevention methods necessary to maintain health		
The general objective of the discipline	Promoting health at the individual and population level		
The specific objective of the discipline	Innovation and prevention as a means of promoting health		
ESCO competency 2261	Promotes health and safety policies in healthcare services		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies and appropriately assesses/analyzes the influence of the natural and social environment on the health status of the human organism, with particularities for dentistry/dental medicine.	The student/graduate identifies, evaluates, and interprets social, cultural, and environmental factors that contribute to maintaining health or to the development of diseases.	The student/graduate plans, integrates, and organizes interventions to improve health status; manages prevention programs and assumes responsibility for implementing health-promotion measures in the community.

The content of the course – Analytical Syllabus	**No. hours**
1 Defining the health promotion process	2
2 Determinants of health status	2
3 Models of approach to health promotion	2
4 Prevention as an essential model in health promotion	2
5 Primary prevention	2
6 Secondary prevention	2
7 Tertiary prevention	2
8 Preventive strategies	2
9 European policy for health and well-being 2020	2
10 Innovation as a method of health promotion	2
11 Theory of diffusion of innovation	2
12 Innovative methods with potential to reduce risk on oral health	3
13 Practical applications of population vs. individual strategies	3
Minimal bibliography	
1. Health promotion programs from theory to practice 2nd Edition C.Fertman 2016 2. Course support 2025-2026	

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The development of content and the choice of teaching methods are based on the identification of knowledge and skill needs necessary to align with national and international standards.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Interactive programmed learning, multimedia projection of course material

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**80 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**20 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Written work (descriptive)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Basic knowledge of the concepts presented Answers should not contain serious errors	• In-depth knowledge of the concepts presented • Reading the entire recommended bibliography • Correct answer to all questions

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THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Technology of dental prostheses II**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Bogdan-Andreescu Claudia Florina**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Antipa Cristiana**					
The discipline code	**DM 2.4.10**	The formative category of the discipline		**SD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**5**	Of which course hours	**2**	seminary / laboratory / clinical internship	**3**
Total hours of the curriculum	**70**	Of which course hours	**28**	seminary / laboratory / clinical internship	**42**
		Total hours per semester	**100**		

Distribution of Time	**30 hours**
1. Deciphering and studying course notes	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	3
4. Additional documentation in the library	1
5. Specific training activity seminar and / or laboratory	3
6. Achievement homework, reports, essay, translations etc	2
7. Preparation of control papers	3
8. Preparation of oral presentations	0
9. Preparation of final exam	5
10. Consultations	1
11. Documentation on the field	0
12. Documentation on the Internet	2

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Technology of dental prostheses II**		
Professional competencies specific to the discipline	Theoretical skills: - Ability to diagnose total and partial edentulism suitable for removable dentures; - Proficient use of specialized terminology; - Understanding of the component elements of both total and partial dentures; - Familiarity with theoretical concepts relevant to the clinical and technical production of total and partial dentures. Practical skills: - Knowledge of traditional technology for manufacturing total dentures; - Ability to develop designs for partial dentures tailored to specific clinical cases; - Awareness of modern technologies used in denture fabrication, including injection molding, milling, and 3D printing.		
Transversal competencies	Upon completion of the course, students are expected to possess the following skills: - Professional Behavior. Demonstrate a professional attitude towards patients and the work team, effectively coordinating activities within the dental office. - Ethical Behavior. Uphold the rights of patients while treating both patients and colleagues with respect, free from discrimination. - Analytical and Organizational Skills. Exhibit the ability to synthesize information, integrate knowledge, collaborate effectively, and organize tasks efficiently, including analyzing complex information and managing time effectively within a team setting.		
The general objective of the discipline	Acquiring the theoretical and practical notions regarding total and partial edentulism at an appropriate level so that after completing the topics provided within the discipline, students possess the skills necessary to manufacture the total and partial removable prosthesis.		
The specific objective of the discipline	This discipline centers on understanding the clinical signs, complications, and forms of total and partial edentulism. It seeks to equip students with the practical skills essential for their future roles as dentists, particularly in understanding the integral components of removable full and partial dentures and the clinical and technical stages involved in their fabrication. By mastering these competencies, students will be well-prepared for their clinical internships in the subsequent years of their education.		
ESCO competency 2261	Maintains denture records		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, and correctly describes fundamental concepts regarding the types of dental prostheses, fabrication stages, laboratory techniques, and materials used. Understands principles of prosthetic design, the relationship between oral structures and prosthetic devices, as well as functional and esthetic criteria.	The student/graduate applies theoretical knowledge in the practical stages of fabricating dental prostheses. Selects and correctly uses instruments and equipment specific to dental technology. Analyzes and evaluates the quality of prosthetic work in relation to clinical and functional requirements.	The student/graduate shows responsibility in observing hygiene and safety standards in the dental technology laboratory. Demonstrates autonomy and rigor in the fabrication process and collaborates effectively with the medical team. Observes ethical and deontological principles in professional activity.

The content of the course – Analytical Syllabus	**No. hours**

1. Total edentulism: definition and classification, etiology, symptomatology, evolution and prognosis, morpho-functional changes in the ADM, complications, the edentulous ridges.	2
2. Complete denture: definition, indications, component elements, materials, biodynamics, and factors contributing to its support, maintenance, and stabilization.	2
3. Complete denture: clinical and technical stages for the fabrication of the total prosthesis; impression and preliminary model; techniques and materials used for the fabrication of the individual tray, functional impression.	2
4. Complete denture: the record blocks with occlusal rim, registering the intermaxillary relationship, mounting the master casts on articulator, setting denture teeth I.	2
5. Complete denture: setting denture teeth II, wax try in, completion of wax-up and festooning, flasking, packing the mold, deflasking, finishing and polishing.	2
6. Repairing, relining, rebasing in a complete denture. Immediate denture.	2
7. Test. Modern materials and techniques for total denture, milled denture and 3D printing denture.	2
8. Partial edentulism: definition, classification. Removable partial denture: definition, classifications.	2
9. Removable partial acrylic denture: definition, component elements, characteristics, clinical and technical stages, fabrication.	2
10. Overdenture: definition, characteristics, indications, type of overdentures, fabrication.	2
11. Removable flexible partial denture: definition, characteristics, indications, fabrication.	2
12. Removable partial denture with metallic framework: definition, characteristics, components, materials.	2
13. Removable partial denture with metallic framework: clasps and special systems, clinical and technical stages.	2
14. Modern materials and techniques for removable partial denture; polymers and metal, selective laser sintering, 3D printing	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Technology of complete denture: clinical and technical stages of making the total denture, armamentarium. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
2. Technology of complete denture: preliminary impression and preliminary cast. Theoretical presentation, demonstration (clinical, phantom), video presentation. Each student will pour a preliminary cast.	3
3. Technology of complete denture: making of individual tray from shellac base plate. Theoretical presentation, demonstration (clinical, phantom), video presentation. Each student will make an individual tray.	3
4. Technology of complete denture: making of individual tray from photo-polymerized base plate. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
5. Technology of complete denture: beading and boxing of functional impression, pouring the master cast, making of occlusal rim. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
6. Technology of complete denture: mounting the working casts on articulator, setting denture teeth I. Theoretical presentation, demonstration (clinical, phantom), video presentation. Each student will set the teeth for a maxillary denture.	3
7. Technology of complete denture: setting denture teeth II.	3
8. Test. Technology of complete denture: completion of wax-up and festooning, flasking, packing the mold, deflasking, finishing and polishing. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
9. Technology of removable partial denture: clinical and technical stages of making the acrylic partial denture, making of wire clasps. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
10. Technology of removable partial denture: clinical and technical stages of making the flexible partial denture, duplication of master cast, injection system. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
11. Technology of removable partial denture with metallic framework: clinical and technical stages, surveying of the master cast, designing the metallic frame. Theoretical presentation, demonstration (clinical, phantom), video presentation. Each student will design a project for a removable partial denture with metallic framework.	3
12. Technology of removable partial denture with metallic framework: casting the metallic framework, selective laser sintering. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
13. Reconditioning of complete and partial dentures. Theoretical presentation, demonstration (clinical, phantom), video presentation.	3
14. Practical examination.	3
Minimal bibliography	

1. Dental Prosthesis Technology II - Course Handouts, PDF format, current year of study 2025-2026.
2. Att W - Digital Workflow in Reconstructive Dentistry, Quintessence 2019.
3. Carr AB, Brown DT - McCracken's Removable Partial Prosthodontics, 13th Edition, Elsevier, 2016.
4. Dricoll CF, Golden WG. - Treating the Complete Denture Patient. Wiley-Blackwell 2020.
5. Johnson T, Patrick DG, Stokes CW, Wildgoose DG, Wood DJ. Basics of Dental Technology: A Step by Step Approach, 2nd Edition. Wiley-Blackwell 2016.
6. Wilding R. - Case Guides to Complete and Partial Denture Prosthodontics. Thieme Medical Publishers Inc 2019.

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

This discipline focuses on acquiring essential knowledge about partial and total edentulism and their corresponding treatments with partial and complete dentures. It also involves understanding how to perform partial and complete dentures using traditional and modern technologies. By the end of the course, students will be familiar with the clinical-technological algorithm used for fabrication of total and partial dentures. The students will appreciate the importance of the collaborative team dynamic involving the dentist, dental technician, and patient, which they must coordinate. This discipline establishes the fundamental competencies assessed in the licensing exam for examining and treating complete and partial edentulous patients.

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	- Multimedia projection of the course, according to the analytical curriculum. - Interactive programmed education is used to form the practical skill of the accumulated theoretical notions.
Laboratory	- Models and phantoms will be used for practical demonstrations and exemplification of the technical stages of making complete and partial denture. - Equipment, instruments, and dental materials specific to the fabrication of complete and partial dentures.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

- pouring the preliminary model,
- making an individual tray from the base plate,
- mounting the models on the simulator,
- setting the teeth for the full and partial denture,
- drawing the frame of a removable partial denture with metallic frame.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**50 %**
- the final answer at the practical exam at laboratory	**20 %**
- periodic testing by control papers	**20 %**
- continuing testing during the semester	**0 %**
- activity like homework / reports / essay / translation / projects etc.	**10 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E: descriptive written work that evaluates the acquisition and understanding of theoretical concepts and the way of thinking (50% of the final grade).

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• passing the practical exam, • passing the test, • knowledge of the basic concepts regarding technology of dental prosthesis, minimum grade 5 on the final evaluation.	• in-depth knowledge of the concepts regarding technology of dental prosthesis, • attendance at the course, • activity at the course.

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Dental materials**					
Didactic function, name and surname of the course holder	**Lecturer PhD Antipa Cristiana**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Antipa Cristiana, Assist. Prof. PhD Lescai Ioana Mădălina**					
The discipline code	**DM 2.4.11**	The formative category of the discipline		**SD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**4**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**4**	Of which course hours	**2**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**56**	Of which course hours	**28**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**100**		

Distribution of Time	**44 hours**
1. Deciphering and studying course notes	0
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	10
4. Additional documentation in the library	5
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	5
8. Preparation of oral presentations	2
9. Preparation of final exam	10
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	2
15. Other activities	0

The name of the course	**Dental materials**		
Professional competences specific to the discipline	- Presentation of aspects related to the preparation and use of dental materials in the dental office and dental laboratory. - Students acquiring knowledge of the composition and properties of dental materials, models of presentation, indications, contraindications of dental materials - Knowing the techniques for the preparation and use of dental materials, in order to posses the necessary knowledge for their correct and efficient application in practice - Understanding the long-term resistance of storage methods, and proper storage of dental materials. - Awareness of the risks associated with inhaling various chemical substances used in dental medicine. - Acquiring knowledge of the biocompatibility characteristics of dental materials. - Understanding the selection of the appropriate dental material for specific uses from the numerous materials available on the market, considering factors such as effectiveness, cost-effectiveness, and alignment with patient requirements and expectations.		
Transversal competencies	- The student must be aware that the work they will undertake is a team effort, with the human factor represented by the dentist, dental assistant, and dental technician. This team is responsible for ensuring workplace safety and health, as well as the correct use of current materials, techniques, and technologies. - Passion for high-performance activities geared towards the well-being of patients, achieved through teamwork, helps and obliges students from the early years of the faculty to become professionals in the field of dental medicine. - Knowledge of current high-performance dental materials, as well as the requirements for bringing up to date the dental office and dental laboratory.		
The general objective of the discipline	The students need to acquire the necessary knowledge for the correct and efficient use of dental materials in current practice. This includes not only performing conservative and restorative therapies and dental prophylaxis but also ensuring the proper creation of prosthetic restorations.		
The specific objective of the discipline	Students must acquire the ability to understand various aspects related to the composition, properties, manipulation, indications, and contraindications of different classes of dental materials, which have significant implications in correct dental treatments. The students must understand and correctly apply, in an individualized manner, the theoretical knowledge accumulated regarding dental materials used in dental practice. Learning the correct techniques for the preparation and manipulation of dental materials used in dental office and dental laboratory represents the specific objectives of this discipline.		
ESCO competency 2261	Multitasks		
Learning outcomes	• **Knowledge**	• **Skills**	**Responsibility and autonomy**
	The student/graduate identifies, classifies, and describes the physico-	The student/graduate selects, prepares, and correctly manipulates dental	The student/graduate demonstrates responsibility in using dental materials in

	chemical, biological, and mechanical properties of dental materials used in clinical practice and in the laboratory. Recognizes indications, contraindications, and interactions between dental materials and oral tissues.	materials according to clinical indications. Applies principles of critical evaluation regarding their quality, durability, and biocompatibility. Is able to correlate material selection with the clinical situation and the patient's needs.	accordance with safety standards and current regulations. Assumes professional autonomy in decision-making regarding material selection and promotes ethical and responsible behavior in relations with the patient and the medical team.

The content of the course – Analytical Syllabus	**No. hours**
1. Dental materials: history, evolution and classification, properties, ideal qualities.	2
2. Biocompatible aspects of dental materials: biocompatibility requirements, biocompatibility of various dental materials.	2
3. Auxiliary materials: Impression materials - requirements of impression materials, properties, classification.	2
4. Non elastic impression materials. Zinc oxide eugenol impression pastes: composition, manipulation techniques, indication, contraindications. Impression compounds.	2
5. Elastic impression materials: hydrocolloids, elastomers, manipulation techiques, advantages, disadvantages.	2
6. Gypsum products: Cast and die materials- classification, manipulation, properties.	2
7. Dental polimer resins: properties, presentation, indications, contraindications, working technique.	2
8. Dental cements: evolution and classification, properties, ideal qualities. Zinc phosphate cements, Silicate cement, GIC: properties, presentation, indications, contraindications, working technique.	2
9. Composite Restorative Resins: Classification, aplications, composition, working technique.	2
10. Mechanisms of Bonding: Bonding agents, classifications, requirements	2
11. Dental materials used in endodontic: properties, presentation, indications, contraindications, working technique. Surgical cements: properties, presentation, indications, contraindications, working technique	2
12. Materials used in Orthodontics: classification, requierements, properties	2
13. Dental Implant Materials: ideal requirements, indication, contraindication, shapes, designs	2
14. Dental ceramics: properties, classification, advantages, disadvantages, applications	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Impression materials. The students will learn about properties, indications, working technique of non elastic impression materials.	2
2. Impression materials. The students will learn about properties, indications, working technique of elastic impression materials- hydrocoloids.	2
3. Impression materials. The students will learn about properties, indications, working technique of elastic impression materials- elastomers.	2
4. Gypsum products. The students will learn about properties, indications, working technique.	2
5. Dental polimer resins: The students will learn about properties, indications, contraindications, working technique.	2

6. Dental cements. The students will learn about properties, indications, working technique of zinc phosphate cements. Control paper	2
7. Dental cements. The students will learn about properties, indications, working technique of zinc oxide eugenol.	2
8. Dental cements. The students will learn about properties, indications, working technique of GIC.	2
9. Composite Restorative Resins: The students will learn about aplications, composition, working technique of composite resins and about bonding agents.	2
10. Dental materials used in endodontic: The students will learn about the properties, indications, contraindications, working technique of bioceramics, calcium hydroxide.	2
11. Materials used in Orthodontics: the students will learn about classification, requierements, properties of orthodontic dental materials.	2
12. Dental Implant Materials: The students will learn about ideal requirements, indication, contraindication, shapes, designs.	2
13. Dental ceramics. The students will learn about properties, advantages, indications, working technics.	2
14. Practical exam	2

Minimal bibliography

1. Dental Materials - Course Handouts, PDF format, current year of study 2024-2025.
2. V Shama Bhat et al, Science of Dental Materials with Clinical Applications- third edition, 2019
3. Stewart, Michael Bagby, Clinical Aspects of Dental Materials, 5th ed. Edition, Jones & Bartlett Publishers; 2020
4. Shen C, Rawls HR, Esquivel-Upshaw JF, Phillips' Science of Dental Materials, 13th Edition, Elsevier Health, 2021

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The discipline of Dental Materials is an important discipline, mandatory for a student to become a dentist. The informations aquired are in accordance with the current legislation and are suitable for the activities carried out at international level in the preclinical dentistry segment.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Interactive presentation of the didactic material according to the analytical curriculum, using multimedia projection of the course with PowerPoint presentations, demonstrative films, discussions on the topics covered.
Laboratory	The practical activity takes place in dental offices where students, under the supervision and guidance of teaching staff, learn the presentation mode and the manipulation of various dental materials in accordance with the analytical curriculum, they take impressions on phantoms using different impression materials, insert the obtained materials into cavities made on plaster models and cement wax models onto the abutments of gypsum models. Furthermore, based on the knowledge acquired on courses, on demonstrative videos, as well as on multimedia tools, debates are initiated and conducted on topics provided by the analytical curriculum.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

- Preparation of FOZ cement for obturation;

- Preparation of CIS cement for obturation and cementation;
- Preparation of materials for endodontic treatments;
- Preparation and manipulation of restorative materials based on auto- and photopolymerisable resin
- Preparation and manipulation of impression materials: plaster, alginates, Repin, compounds, synthetic elastomers, with different consistencies.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation (the minimum grade required is 5)	**80 %**
- the final answer at the practical exam at laboratory	**15%**
- periodic testing by control papers	**5%**
- continuing testing during the semester	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E:
Practical Exam – Preparation of a studied dental material. Written paper with information about the characteristics of the material.
E: Mulitple choice test

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
The recovery of absences is mandatory. Passing the tests for theoretical and practical knowledge. Passing the practical exam is a requirement for admission to the final exam (final evaluation). Knowing the basics of studied dental materials.(at least half of the answers has to be correct)	Attendance and active participation in practical activities. Passing the theoretical and practical tests with at least 8. Participation in interactive discussions during courses or practical activities. Detailed knowledge of studied dental materials.(at least 90% of the answers has to be correct)

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THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Ethics and academic integrity**					
Didactic function, name and surname of the course holder	**Prof. PhD Răescu Mihaela**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 2.4.12**	The formative category of the discipline		**CD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**1**	Of which course hours	**1**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**14**	Of which course hours	**14**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		

Distribution of Time	**36 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	10
4. Additional documentation in the library	1
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	5
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Ethics and academic integrity**		
Professional competences specific to the discipline	Learning the norms of ethics in academic activity		
Transversal competencies	Specific knowledge; How to identify the responsabilities and techniques for efficient work ina research team		
The general objective of the discipline	Learning the norms of ethics in scientific medical research		
The specific objective of the discipline	Learning the norms of ethics in scientific medical research		
ESCO competency 2261	Complies with healthcare legislation. Promotes inclusion		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and explains the fundamental principles of ethics and academic integrity, as well as their applications in medical practice and research.	The student/graduate evaluates and applies ethical principles in research and academic activity.	The student/graduate plans, organizes, and decides on measures that respect ethical norms in all academic aspects.

The content of the course – Analytical Syllabus	**No. hours**
1. Biomedical research	1
2. International ethics codes in research	1
3. National rules on human subjects research	1
4. Methodological rules regarding research on human subjects	1
5. Data protection	1
6. Ethical aspects regarding the study design	1
7. Subjects recruitment	1
8. Subjects monitoring	1
9. Conflict of interests	1
10. Risk analysis and efficiency balance	1
11. Subjects payment	1
12. Fundamental and transfrontalier research	1
13. Ethics in European Community research	1
14. E.U Organisations relevant for ethics approach	1
Minimal bibliography	
Ethics in research, Practice in Innovation I.G.I Global 2018, Research ethics in the real world, Helen Kara Policy Press 2019	

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health
Combining teaching methods with practic examples in order to achieve knowledge and skills according to national and

international standards

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Interactive program,multimedia,practical examples

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**100 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**0 %**
- activity like homework / reports / essay / translation / projects etc.	**0 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E: Written work (descriptive and test)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Correct answers to elementary questions	Correct answers to all questions Correct analysis of a practical case

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THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF MEDICAL-SURGICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Medical deonthology. Bioethics**					
Didactic function, name and surname of the course holder	**Lecturer PhD Mihălcescu Ana Maria**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 2.4.13**	The formative category of the discipline		**CD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**1**	Of which course hours	**1**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**14**	Of which course hours	**14**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		

Distribution of Time	**36 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	6
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	10
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Medical deonthology. Bioethics**		
Professional competences specific to the discipline	The student will be able to decipher a text with legal content regarding the medical profession, will know the types of legal liability that are applicable to the medical profession, the conditions for triggering these types of liability, and will have basic notions regarding the procedures for attracting liability. Will know the rights of the patient and be able to apply them in his profession. Will know the bioethical principles, thus theoretically substantiating his future deontology and professional integrity.		
Transversal competencies	By acquiring basic notions of medical law, the student will have the theoretical basis necessary for further professional development in related fields, such as healthcare management or medical expertise.		
The general objective of the discipline	Knowledge of the notions regarding the organization of the medical profession, the main legislation applicable to effective medical practice and the notions of bioethics		
The specific objective of the discipline	Transmitting to the student information of practical importance, regarding malpractice, the rights and obligations of the doctor and the patient, medical bioethics, legal liability applicable to the doctor (types, concepts, procedures, effects, etc.).		
ESCO competency 2261	Promotes inclusion. Manages healthcare user data		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, and explains fundamental principles of bioethics and medical deontology, as well as their applications in medical practice and research. Understands and accepts moral and ethical responsibility when providing patient care and addressing the population.	The student/graduate evaluates and applies ethical and deontological principles in medical decision-making, in research, and in academic activity. Understands how to practice as a dentist while consistently respecting the patient's interests and demonstrating a deontological attitude.	The student/graduate plans, organizes, and decides on measures that respect ethical norms in all professional and academic aspects; observes the dentist's code of ethics in the course of professional activity.

The content of the course – Analytical Syllabus	**No. hours**
1 Introduction to the study of the discipline and explanation of its usefulness. Presentation of the field of study of medical law. Fundamental human rights with relevance to medical practice. Representative cases from the ECHR jurisprudence	1
2 Models of public health systems. Organization and practice of the medical profession in Romania and in Europe. Identification of the relevant legislative framework. Studying the conditions for exercising the medical profession in Romania and in the EU. 1	1
3 The principle of mutual recognition of medical professional qualifications in Europe. The principle of freedom of establishment.	1
4 The National College of Physicians of Romania. Organization, powers.	1
5 Disciplinary liability of the doctor. Procedure, sanctions, effects.	1
6 Patient rights part	1
7 Patient rights part 2	1
8 Medical malpractice. Course no. 1: definition, conditions, theories on the legal nature of the legal relationship between doctor and patient	1

9 Medical malpractice course no. 2: content of the legal relationship between doctor and patient: rights and obligations of the parties to the legal relationship	1
10 Medical malpractice course no. 3: objective liability in medical law, liability for the act of another	1
11 Patient rights. Informed patient consent. Criminal and civil medical liability	1
12 Bioethics – course no. 1: bioethical aspects regarding the beginning and end of human life, the rights of the human embryo	1
13 Bioethics (2): medical research and genetic research	1
14 Bioethics (3): ethics in psychiatry, pediatrics and in the field of assisted human reproduction	1

Minimal bibliography

1. Course support 2025-2026
2. Medical Code of Ethics
3. Council of Europe: Guide on the decision-making process regarding medical treatment in end-of-life situations
4. Nuremberg Code
5. Declaration of Helsinki

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The practical aspects and ethical guidelines of the student's future medical profession will be constantly taken into account.

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	Presentation of the material according to the analytical curriculum, projection of related imagery, powerpoint presentations. Interactive programmed learning.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**100 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Written work (descriptive and test)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
knowledge of the fundamental notions taught in the course (definitions, concepts, principles)	detailed knowledge of the concepts, theories and jurisprudence taught in the course

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THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Scientific research methodology**				
Didactic function, name and surname of the course holder	**Lecturer PhD Manea Ștefan**				
Didactic function, name and surname of the laboratory holder	**Assist. Prof. PhD Iancu Ștefania Andrada**				
The discipline code	**DM 2.4.14**	The formative category of the discipline		**CD**	
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)	**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)		**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**2**	Of which course hours	**1**	seminary / laboratory / clinical internship	**1**
Total hours of the curriculum	**28**	Of which course hours	**14**	seminary / laboratory / clinical internship	**14**
		Total hours per semester	**50**		

Distribution of Time	**22 hours**
1. Deciphering and studying course notes	3
2. Study after textbook, course support	2
3. Study of the indicated minimum bibliography	1
4. Additional documentation in the library	1
5. Specific training activity seminar and / or laboratory	1
6. Achievement homework, reports, essay, translations etc	1
7. Preparation of control papers	2
8. Preparation of oral presentations	3
9. Preparation of final exam	4
10. Consultations	1
11. Documentation on the field	0
12. Documentation on the Internet	1

13. Tutoriing	1
14. Examinations	1
15. Other activities	0

The name of the course	**Scientific research methodology**		
Professional competences specific to the discipline	Mastering the methodology of medical scientific research		
Transversal competencies	Students will be aware that the work in the office is done in a team, and the human factor of the team also ensures the application of ethical norms in current medical scientific research.		
The general objective of the discipline	Learning how to conduct health research		
The specific objective of the discipline	Assimilation of sampling methodology, principles and schemes		
ESCO competency 2261	Multitasks. Works in multidisciplinary healthcare teams. Works in a multicultural healthcare environment		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, explains, and analyzes ways of producing, critically evaluating, and disseminating scientific data resulting from qualitative and quantitative research methods.	The student/graduate appropriately uses professional terminology in the official language as well as in an international language. Correctly interprets, manages, and reports knowledge of information technology for the documentation, analysis, and communication of information.	The student/graduate efficiently integrates informational sources and resources for professional communication and training (internet portals, specialized software applications, databases, online courses, etc.).

The content of the course – Analytical Syllabus	**No. hours**
1. Mastering the methodology of medical scientific research	2
2. Scientific research methodology	4
3. Structure of the research	2
4. Types of epidemiological studies	2
5. Use of scientific evidence	2
6. Sampling. Sampling theory.	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Mastering the methodology of medical scientific research	2
2. Scientific research methodology	4
3. Structure of the research	2
4. Types of epidemiological studies	2
5. Use of scientific evidence	2
6. Sampling. Sampling theory.	2
Minimal bibliography	
1. Research Methods for Public Health- Amy A. Eyler, 2021 Springer Publishing 2. Critical thinking : understanding and evaluating dental research - Donald Maxwell Brunette, 2020 Quintessence Publishing	

3. PRINCIPLES AND PRACTICE OF CLINICAL RESEARCH, FOURTH EDITION - JOHN I. GALLIN, FREDERICK P. OGNIBENE, LAURA LEE JOHNSON, 2018 Elsevier
4. EVIDENCE-BASED DECISION MAKING - A TRANSLATIONAL GUIDE FOR DENTAL PROFESSIONALS - Jane L. Forrest, Syrene A. Miller, Pam R. Overman, Michael G. Newman, 2009 Lippincott Williams & Wilkins
5. Statistical and Methodological Aspects of Oral Health Research - E. Lesaffre, J. Feine, B . Leroux, D. Declerck, 2009 Wiley
6. Course Notes 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The development of the contents and the choice of teaching methods are based on the identification of the needs of knowledge and skills necessary to align the dental medical practice with the applicable legal requirements.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Electronic presentations, discussions, comments.
Laboratory	Electronic presentations, discussions, comments.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

in order for the student to acquire the minimum level of competences specific to the discipline, we consider necessary the interactive participation in the practical works, the promotion of the control work and the promotion of the practical exam

For the final grade is taken into account	Total = 100%
- the answer at the exam / final evaluation	**60%**
- the final answer at the practical exam at laboratory	**10 %**
- periodic testing by control papers	**10 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**10 %**
- other activity	**0 %**

Describe the practical ways of final assessment, E:

The practical exam consists of an oral examination of the acquired knowledge, in groups.
The final exam consists of a test: grid testing and open questions.

Minimum requirements for 5 grade (Or how to assign 5 grade)	Minimum requirements for 10 grade (Or how to assign 10 grade)
• Basic knowledge of the presented notions • Answers should not contain serious errors	In-depth knowledge of the presented notions • Browse the entire recommended bibliography • Correct answer to all questions

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**THE DEPARTMENT OF PRECLINICAL DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Allergology and clinical immunology**					
Didactic function, name and surname of the course holder	**Conf. Univ. Dr. Cojocaru Manole**					
The discipline code	**DM 2.4.15**	The formative category of the discipline		**DD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**C**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**1**	Of which course hours	**1**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**14**	Of which course hours	**14**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		
Distribution of Time					**36 hours**
1. Deciphering and studying course notes					
2. Study after textbook, course support					
3. Study of the indicated minimum bibliography					
4. Additional documentation in the library					
5. Specific training activity seminar and / or laboratory					
6. Achievement homework, reports, essay, translations etc					
7. Preparation of control papers					
8. Preparation of oral presentations					
9. Preparation of final exam					
10. Consultations					
11. Documentation on the field					
12. Documentation on the Internet					
13. Tutoriing					
14. Examinations					
15. Other activities					

The name of the course	**Allergology and clinical immunology**		
Professional competences specific to the discipline	Application of ethical and professional conduct in risk situations. Application of prevention and protection measures for the patient with an allergic history. Effective communication with the patient and interdisciplinary professional in critical situations.		
The general objective of the discipline	Understanding the principles of diagnosis and treatment of the main allergic diseases with application in dentistry. Management of the first therapeutic measures in allergic emergencies.		
ESCO competency 2261	Multitasks, Practices active listening.		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student recognizes, analyzes and interprets pathogenic mechanisms, clinical and paraclinical manifestations; has acquired principles of diagnosis and treatment specific to immunoallergic conditions.	The student integrates, adapts and correctly applies methods and techniques for diagnosis and personalized treatment in patients with immuno-allergic conditions.	The student coordinates, integrates and supports, under appropriate supervision, therapeutic and care plans for patients with immuno-allergic conditions.

The content of the course – Analytical Syllabus	**No. hours**
Course #1 – Allergic Diseases Overview of the pathophysiology, epidemiology, and clinical spectrum of allergic conditions. Introduction to immunologic mechanisms, risk factors, and classification of allergic disorders.	2
Course #2 – Allergic Rhinitis Clinical presentation, diagnosis, and management of allergic rhinitis. Discussion of environmental triggers, pharmacological treatment, and immunotherapy options.	2
Course #3 – Food Allergies in Infants and Children Diagnosis and management of food allergies in pediatric populations. Focus on common allergens, clinical manifestations, elimination diets, and emergency interventions.	2
Course #4 – Hypersensitivity Reactions – Type I Mechanisms and clinical implications of immediate (IgE-mediated) hypersensitivity. Conditions discussed include anaphylaxis, urticaria, and atopic dermatitis.	2
Course #5 – Hypersensitivity Reactions – Type II Pathophysiology of antibody-mediated cytotoxic hypersensitivity. Review of associated diseases such as autoimmune hemolytic anemia and Goodpasture syndrome.	2
Course #6 – Hypersensitivity Reactions – Type III Immune complex–mediated hypersensitivity reactions. Clinical correlations with diseases such as systemic lupus erythematosus and serum sickness.	2

Course #7 – Hypersensitivity Reactions – Type IV T-cell mediated (delayed-type) hypersensitivity reactions. Discussion of contact dermatitis, tuberculin skin test, and chronic transplant rejection.	2

Minimal bibliography

1. Burks AW, Holgate ST, O'Hehir RE, Broide DH, editors. **Middleton's allergy: principles and practice**. 9th ed. Philadelphia: Elsevier; 2020.
2. Rich RR, Fleisher TA, Shearer WT, Schroeder HW Jr, Frew AJ, Weyand CM, editors. **Clinical immunology: principles and practice**. 6th ed. Philadelphia: Elsevier; 2023.
3. Abbas AK, Lichtman AH, Pillai S. **Cellular and molecular immunology**. 10th ed. Philadelphia: Elsevier; 2021.
4. Parham P. **The immune system**. 5th ed. New York: Garland Science; 2021.
5. Teaching support materials

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	• Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**80 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**20 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Multiple choice examination

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• According to the correction scale • At least half of the topics must be correct	• According to the correction scale • At least 90% correct topics

Date of completion
15.09.2025

Director of the Department,
Lecturer PhD Tudoreache Sorin

Course holder,

Laboratory holder,
-

Date of approval in the Department
18.09.2025

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**Faculty of Educational Sciences, Communication and International Relations**
Department	**THE DEPARTMENT OF COMMUNICATION AND PUBLIC RELATIONS**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Physical education III**					
Didactic function, name and surname of the course holder	**-**					
Didactic function, name and surname of the laboratory holder	**Assist. Prof. PhD Urichianu Bogdan**					
The discipline code	**DM 2.3.17**	The formative category of the discipline		**CD**		
Academic year	**II**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**1**	Of which course hours	**-**	seminary / laboratory / clinical internship	**14**
Total hours of the curriculum	**14**	Of which course hours	**-**	seminary / laboratory / clinical internship	**14**
		Total hours per semester	**50**		

Distribution of Time	**36 hours**
1. Deciphering and studying course notes	0
2. Study after textbook, course support	0
3. Study of the indicated minimum bibliography	0
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	36
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	0
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Physical education III**		
Professional competences specific to the discipline	1. Modular design (Physical and sports education, Sports and motor performance, Physiotherapy and special motor skills) and planning of the basic contents of the field with an interdisciplinary orientation 2. Organization of the integrated curriculum and the teaching and learning environment, with an interdisciplinary focus (Physical and sports education, Sports and motor performance, Physiotherapy and special motor skills) 3. Evaluation of physical growth and development and the quality of motor skills according to the specific requirements/objectives of physical and sports education, of the attitude towards the independent practice of physical exercise 4. Evaluation of the level of training of practitioners of physical education and sports activities		
Transversal competencies	1.Organizing physical education and sports activities for people of different ages and levels of training under qualified assistance, in compliance with the norms of ethics and professional deontology 2. Efficiently and effectively fulfilling work tasks for organizing and carrying out sports activities 3. Operating with digital programs, documenting and communicating in an international language		
The general objective of the discipline	Optimizing motor capacity according to the requirements of the professional profile; Knowing the methods of preventing, correcting and recovering from diseases and deficient attitudes encountered in the medical profession.		
The specific objective of the discipline	The role of physical education in the daily program of the student, future doctor; Formation of the ability to independently practice physical exercise, in free time; The listed objectives can be achieved by using methods and means specific to physical education and sports. Improvement of basic motor qualities (strength, speed, endurance, skill)		
ESCO competency 2261	Multitasks		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate explains growth and development processes, their implications for motor activity, the somatofunctional, motor, and psychological constitutional typology, and the correlations between constitutional type and the requirements/particularities of physical education and sport, so that they can be used in formative and performance contexts.	The student/graduate: Uses the fundamental notions of human motor activity in varied contexts; Classifies forms of organization and practice of physical education and sport; Analyzes and understands an individual's physical and motor development; Identifies and interprets constitutional typology (somatofunctional, motor, and psychological); Integrates concepts of growth and development into educational and performance	The student/graduate: Exemplifies motor acts, actions, and activities; Provides constructive feedback to improve technique and performance according to the learned principles and methods; Adapts exercise content according to the form of organization and practice; Selects and adapts methods and means according to individuals' physical and motor capacities; Creates individualized programs

		strategies.	according to individual and group needs and characteristics.

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	No. hours
1 Communicating the requirements and the form of evaluation. Organizing for performing physical exercises individually at home and in groups of students online.	1
2 Knowing and understanding programs to improve physical fitness. Thematic report	1
3 The importance of physical exercises for a healthy lifestyle and maintaining physical and mental balance. Thematic report.	2
4 Developing the ability to apply formative knowledge in the field of physical education and sports to everyday activities. Thematic report	2
5 Developing the ability to systematically and independently practice physical exercises. Thematic report	2
6 Capitalizing on the importance of communication in sports as a way of social integration; Thematic report	2
7 Developing the ability to capitalize on the positive effects of physical education on personality and quality of life; Thematic report	2
8 Semester evaluation	2

Minimal bibliography

1. Grigoroiu, C., Pricop, A., 2020, Efficiency of the progressive stretching method in developing female students' fRelexibility in the cheerleading team, Discobolul – Physical Education, Sport and Kinetotherapy Journal, Volume 59, Issue 1, 81-93 Pages: 81-93, https://doi.org/10.35189/dpeskj.2020.59.1.8
2. Leonte, N., Netolitzchi, M., Popescu, O., & Neagu, N. (2018). Using the computerized tests in assessing the simple reaction time of students in the University „Politehnica" of Bucharest". Proceedings of the 14th International Scientific Conference "eLearning and Software for Education", 3, 288-294
3. Șuruba-Rusen, A.M., Murărețu, D.C, 2019, Study on behavioural responsiveness to stress, self-esteem and leisure activities in adolescents, Discobolul – Physical Education, Sport and Kinetotherapy Journal Year XV Vol. 57, no. 3, pg.77.

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

Through its contents, the discipline has a pronounced pragmatic character, contributing to the training of specialists in the field of specialization through the following: harmonious development of the body; optimization of health status; optimization of health status; prevention of the installation of global and segmental physical deficiencies, formation and maintenance of correct body attitudes; stimulation of students' interest in systematic and independent practice of physical exercise individually and collectively daily or weekly; creation of the habit of respecting sports hygiene norms and accident prevention; development of self-defense and self-improvement capacity

Mode of transmission of information:

Forms of activity	Teaching methods used
Laboratory	Interactive programmed learning

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

1 essay and 1 questionnaire completed and submitted online, admitted with a minimum grade of 5 (corresponding to the admitted grade)

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**60 %**
- the final answer at the practical exam at laboratory	**0 %**
- periodic testing by control papers	**20 %**
- continuing testing during the semester	**20 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: 1 report and 1 questionnaire	
Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
-Knowledge of the basics	In-depth knowledge of the concepts

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
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THE DISCIPLINE FILE

Faculty	**Faculty of Educational Sciences, Communication and International Relations**
Department	**THE DEPARTMENT OF COMMUNICATION AND PUBLIC RELATIONS**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Physical education IV**					
Didactic function, name and surname of the course holder	**-**					
Didactic function, name and surname of the laboratory holder	**Assist. Prof. PhD Urichianu Bogdan**					
The discipline code	**DM 2.4.18**	The formative category of the discipline		**CD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**1**	Of which course hours	**-**	seminary / laboratory / clinical internship	**14**
Total hours of the curriculum	**14**	Of which course hours	**-**	seminary / laboratory / clinical internship	**14**
		Total hours per semester	**50**		

Distribution of Time	**36 hours**
1. Deciphering and studying course notes	0
2. Study after textbook, course support	0
3. Study of the indicated minimum bibliography	0
4. Additional documentation in the library	0
5. Specific training activity seminar and / or laboratory	36
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	0
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	0
15. Other activities	0

The name of the course	**Physical education I**V		
Professional competences specific to the discipline	1. Modular design (Physical and sports education, Sports and motor performance, Physiotherapy and special motor skills) and planning of the basic contents of the field with an interdisciplinary orientation 2. Organization of the integrated curriculum and the teaching and learning environment, with an interdisciplinary focus (Physical and sports education, Sports and motor performance, Physiotherapy and special motor skills) 3. Evaluation of physical growth and development and the quality of motor skills according to the specific requirements/objectives of physical and sports education, of the attitude towards the independent practice of physical exercise 4. Evaluation of the level of training of practitioners of physical education and sports activities		
Transversal competencies	1.Organizing physical education and sports activities for people of different ages and levels of training under qualified assistance, in compliance with the norms of ethics and professional deontology 2. Efficiently and effectively fulfilling work tasks for organizing and carrying out sports activities 3. Operating with digital programs, documenting and communicating in an international language		
The general objective of the discipline	Optimizing motor capacity according to the requirements of the professional profile; Knowing the methods of preventing, correcting and recovering from diseases and deficient attitudes encountered in the medical profession.		
The specific objective of the discipline	The role of physical education in the daily program of the student, future doctor; Formation of the ability to independently practice physical exercise, in free time; The listed objectives can be achieved by using methods and means specific to physical education and sports. Improvement of basic motor qualities (strength, speed, endurance, skill)		
ESCO competency 2261	Multitasks		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate explains growth and development processes, their implications for motor activity, the somatofunctional, motor, and psychological constitutional typology, and the correlations between constitutional type and the requirements/particularities of physical education and sport, so that they can be used in formative and performance contexts.	The student/graduate: Uses the fundamental notions of human motor activity in varied contexts; Classifies forms of organization and practice of physical education and sport; Analyzes and understands an individual's physical and motor development; Identifies and interprets constitutional typology (somatofunctional, motor, and psychological); Integrates concepts of growth and development into	The student/graduate: Exemplifies motor acts, actions, and activities; Provides constructive feedback to improve technique and performance according to the learned principles and methods; Adapts exercise content according to the form of organization and practice; Selects and adapts methods and means according to individuals' physical and

		educational and performance strategies.	motor capacities; Creates individualized programs according to individual and group needs and characteristics.

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	No. hours
1 Communicating the requirements and the form of evaluation. Organizing for performing physical exercises individually at home and in groups of students online.	1
2 Knowing and understanding programs to improve physical fitness. Thematic report	1
3 The importance of physical exercises for a healthy lifestyle and maintaining physical and mental balance. Thematic report.	2
4 Developing the ability to apply formative knowledge in the field of physical education and sports to everyday activities. Thematic report	2
5 Developing the ability to systematically and independently practice physical exercises. Thematic report	2
6 Capitalizing on the importance of communication in sports as a way of social integration; Thematic report	2
7 Developing the ability to capitalize on the positive effects of physical education on personality and quality of life; Thematic report	2
8 Semester evaluation	2

Minimal bibliography

1. Grigoroiu, C., Pricop, A., 2020, Efficiency of the progressive stretching method in developing female students' fRelexibility in the cheerleading team, Discobolul – Physical Education, Sport and Kinetotherapy Journal, Volume 59, Issue 1, 81-93 Pages: 81-93, https://doi.org/10.35189/dpeskj.2020.59.1.8
2. Leonte, N., Netolitzchi, M., Popescu, O., & Neagu, N. (2018). Using the computerized tests in assessing the simple reaction time of students in the University „Politehnica" of Bucharest". Proceedings of the 14th International Scientific Conference "eLearning and Software for Education", 3, 288-294
3. Șuruba-Rusen, A.M., Murărețu, D.C, 2019, Study on behavioural responsiveness to stress, self-esteem and leisure activities in adolescents, Discobolul – Physical Education, Sport and Kinetotherapy Journal Year XV Vol. 57, no. 3, pg.77.

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

Through its contents, the discipline has a pronounced pragmatic character, contributing to the training of specialists in the field of specialization through the following: harmonious development of the body; optimization of health status; optimization of health status; prevention of the installation of global and segmental physical deficiencies, formation and maintenance of correct body attitudes; stimulation of students' interest in systematic and independent practice of physical exercise individually and collectively daily or weekly; creation of the habit of respecting sports hygiene norms and accident prevention; development of self-defense and self-improvement capacity

Mode of transmission of information:

Forms of activity	Teaching methods used
Laboratory	Interactive programmed learning

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check

1 essay and 1 questionnaire completed and submitted online, admitted with a minimum grade of 5 (corresponding to the admitted grade)

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**60 %**
- the final answer at the practical exam at laboratory	**0 %**
- periodic testing by control papers	**20 %**
- continuing testing during the semester	**20 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: 1 report and 1 questionnaire	
Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
-Knowledge of the basics	In-depth knowledge of the concepts

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
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THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Oro-dental diagnosis**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Hancu Violeta**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 2.4.22**	The formative category of the discipline		**DD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**C**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**Op**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**2**	Of which course hours	**2**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**28**	Of which course hours	**28**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		

Distribution of Time	**22 hours**
1. Deciphering and studying course notes	6
2. Study after textbook, course support	4
3. Study of the indicated minimum bibliography	2
4. Additional documentation in the library	1
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	1
7. Preparation of control papers	1
8. Preparation of oral presentations	1
9. Preparation of final exam	1
10. Consultations	1
11. Documentation on the field	1
12. Documentation on the Internet	1

13. Tutoriing	0
14. Examinations	2
15. Other activities	0

The name of the course	**Oro-dental diagnosis**		
Professional competences specific to the discipline	The subject "Oro-dental Diagnosis" aims to provide students with a comprehensive understanding of the diagnostic process, emphasizing the importance of communication skills with patients and the mastery of examination techniques.		
Transversal competencies	The curriculum and practical activities are designed to help students acquire the necessary knowledge and skills to effectively communicate with patients and apply the learned concepts in their future dental practice.		
The general objective of the discipline	To prepare students to master the algorithm required for establishing a correct diagnosis and to understand the methods and techniques of oro-dental diagnosis.		
The specific objective of the discipline	• To learn the methodology of data collection for a complete and accurate diagnosis. • To acquire the knowledge needed to select and recommend appropriate paraclinical examinations for diagnosis confirmation.		
ESCO competency 2261	Practices active listening.		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate accumulates, describes, analyzes, and evaluates specialized knowledge regarding the structures of the dento-maxillary apparatus, the pathology of the teeth, jaws, and oral cavity tissues, dental and dentoalveolar abnormalities, congenital malformations, as well as diagnostic principles specific to dentistry, using classical or digital methods/techniques.	The student/graduate acquires and demonstrates supervised specialty clinical experience. Gradually and stepwise performs practical and clinical procedures necessary to ensure the professional competencies (knowledge, skills, and abilities) specific to the profession of dentist.	The student/graduate integrates and applies specialty competencies necessary for prevention, diagnosis, and treatment activities regarding abnormalities and diseases of the teeth, jaws, and related tissues. Assesses, analyzes, differentiates, estimates, interprets, and uses the accumulated information, knowledge, skills, and responsibilities to obtain the competencies necessary for practicing the profession of dentist.

The content of the course – Analytical Syllabus	**No. hours**
1. Introduction to Oro-dental Diagnosis: Definition, clinical signs, symptoms, presumptive diagnosis, differential diagnosis, emergency diagnosis. Patient anamnesis: stages, biographical data, reason for consultation, history of illness, personal history, hereditary and familial history.	2
2. Clinical Examination and Evaluation: General patient assessment, loco-regional examination, techniques (inspection, palpation, percussion, auscultation, functional evaluation).	2
3. Extraoral Examination: Examination of the face, skin, bony contours, sinuses, trigeminal nerve emergence points, lymph nodes, temporomandibular joint, submandibular, and cervical regions.	2
4. Intraoral Examination: Oral mucosa, variations of normal morphology without pathological significance	2
5. Examination of Teeth and Marginal Periodontium: Evaluation of dental arches in deciduous and permanent dentition; paraclinical investigations (radiographs, study models).	2
6. Imaging Techniques in Dental Medicine: Role and interpretation.	2
7. Emergency Diagnosis and Odontal Diagnosis.	2
8. Periodontal and Orthodontic Diagnosis.	2
9. Surgical and Occlusion Diagnosis	2
10. Diagnosis of Edentulism.	2
11. Presumptive, Final, and Evolution Diagnosis.	2

12. Treatment Planning Stages.	2
13. Informed Patient Consent.	2
14. Dental Office Organization: Workflow and activity scheduling.	2

Minimal bibliography

1. Alan Roger Santos-Silva - **Clinical Decision-Making in Oral Medicine: A Concise Guide to Diagnosis and Treatment,** Springer, 2023
2. Lecture notes 2025-2026

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

The curriculum aligns with similar subjects taught in dental schools nationally and internationally, ensuring students meet professional standards and expectations in oral health care.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Interactive lectures with multimedia presentations.

For the final grade is taken into account	Total = 100%
- the answer at the exam / final evaluation	**90 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**5 %**
- activiry like homework / reports / essay / translation / projects etc.	**5 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Written work (descriptive)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
To be admitted to the final exam, students must: • Accurately complete a clinical observation sheet based on case scenarios. • Analyze and interpret two theoretical study models or virtual simulations. • Analyze and interpret OPG and retroalveolar radiographs provided during coursework or assessments.	The final grade will be determined based on: • Results from the final written examination. • Continuous assessment through periodic quizzes or case discussions. • Participation in coursework activities such as essays, case studies, or PowerPoint presentations. • Engagement with additional assignments (e.g., literature reviews or clinical scenario analysis).

„TITU MAIORESCU" UNIVERSITY OF BUCHAREST
ACADEMIC YEAR 2025-2026

THE DISCIPLINE FILE

Faculty	**DENTAL MEDICINE**
Department	**THE DEPARTMENT OF SPECIALIZED DENTAL MEDICINE DISCIPLINES**
Domain of study	**HEALTH**
Study cycle	**LICENCE STUDIES**
Study program	**Dental Medicine**

Discipline name	**Dentogeny**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Mihai Laurența Lelia**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 2.4.23**	The formative category of the discipline		**DD**		
Academic year	**II**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**C**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**Op**	Number of credits		**2**

* *If the discipline has more semesters of studies, it will be fulfil a file for each semester*

Number of hours per week	**2**	Of which course hours	**2**	seminary / laboratory / clinical internship	**-**
Total hours of the curriculum	**28**	Of which course hours	**28**	seminary / laboratory / clinical internship	**-**
		Total hours per semester	**50**		

Distribution of Time	**22 hours**
1. Deciphering and studying course notes	3
2. Study after textbook, course support	3
3. Study of the indicated minimum bibliography	3
4. Additional documentation in the library	2
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	2
8. Preparation of oral presentations	0
9. Preparation of final exam	3
10. Consultations	1
11. Documentation on the field	0
12. Documentation on the Internet	2
13. Tutoriing	1

14. Examinations	2
15. Other activities	0

The name of the course	**Dentogeny**		
Professional competences specific to the discipline	Establishing aesthetic criteria in dentistry, relating to the individual features of patients dentogeny.		
Transversal competencies	Knowledge related to adequate color selection in the dento-facial area, with the aim of eliminating early and/or late failures and dysfunctions in this area. Integration of the dentogeny of the dento-facial area in the interdisciplinary treatment plans.		
The general objective of the discipline	Realization of adequate aesthetic restorations with suitable dentogeny for patients.		
The specific objective of the discipline	Evaluation of risk factors in the failures of application of individual and specific features for correct and esthetic dentogeny in oral rehabilitation.		
ESCO competency 2261	Multitasks. Interacts with healthcare users		
Learning outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, describes, differentiates, and appropriately evaluates the structure and functions of the dento-maxillary apparatus (teeth, jaws, muscles, related structures, and tissues), as well as their relationship with the patient's health and physical well-being.	The student/graduate develops and applies the specialized professional knowledge acquired for the evaluation of the structures of the dento-maxillary apparatus.	The student/graduate identifies, localizes, differentiates, and describes the structures of the dento-maxillary apparatus.

The content of the course – Analytical Syllabus	**No. hours**
1. Notions of dentogeny and facial aesthetics: terminology and evolution of the concept of facial aesthetics	2
2. Notions of dentogeny and facial aesthetics: Fundamentals of Color and Light: Defining Color and Light; Light Spectrum; Color Perception Mechanism; Refraction: A Key Optical Phenomenon	2
3. Optical Properties of Natural Teeth and Color Perception: Complex Structure of Natural Teeth; Optical Phenomena in Natural Teeth; Factors Influencing Color Perception; Renk Characteristics of Natural Teeth	2
4. Dental Color Analysis and Selection in Dentistry: Methods of Color Analysis	2
5. Dental Color Analysis and Selection in Dentistry: Color Systems in Dentistry:	2
6. Dental Color Analysis and Selection in Dentistry: Color Matching Tools and Techniques	2
7. Dental Color Analysis and Selection in Dentistry: Best Practices for Color Selection, Challenges in Color Matching	2
8. Application of Color Science in Dental Materials and Restorative Techniques: Color Properties of Dental Materials	2
9. Application of Color Science in Dental Materials and Restorative Techniques: Techniques for Achieving Natural-Looking Restorations	2

10. Application of Color Science in Dental Materials and Restorative Techniques: Advanced Color Matching Techniques	2
11. Application of Color Science in Dental Materials and Restorative Techniques: Future Trends in Dental Color Science	2
12. Future Trends in Dental Color Science	2
13. Ethical Considerations in Aesthetic Dentistry	2
14. The role of the dentist within the triad of patient–dentist–dental technician for the individual application of the notions of dentogeny and oro-facial aesthetics	2

Minimal bibliography

1. Lecture notes
2. Chu SJ, Devigus A, Paravina R, Mieleszko A. Fundamentals of Color: Shade Matching and Communication in Esthetic Dentistry, Second Edition, Quintessence Publishing Co, Inc 2019
3. Cortes ARG, Digital Dentistry: A Step–by–Step Guide and Case Atlas, Wiley Publishing, 2022
4. Dooren E, Cofar F. Interdisciplinary Esthetic Dentistry,Quintessence Publishing,2024

Facultative bibliography

1. Ronald E. Goldstein, Stephen J. Chu, Ernesto A. Lee , Christian F.J. Stappert, Ronald E. Goldstein's Esthetics in Dentistry, Third Edition, Wiley Publishing, 2018
2. Neeta Pasricha, Khushboo Khushboo, Digital Smile Designing, LAP LAMBERT Academic Publishing. 2023
3. Keith G. Clinical Applications of Dental Materials, American Medical Publishers, 2023

Corroborating the contents of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health

Scientific manifestations and meetings with representatives of the epistemic community, professional associations, and representative employers are organized, and the way in which the graduates meet the expectations of the representatives is appreciated, then the contents of the discipline are adjusted to satisfy these expectations.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Interactive presentation of the teaching material according to the analytical program, using the multimedia projection of the course through PowerPoint presentations, demonstrative films, and debates on the discussed topics.

For the final grade is taken into account	Total = 100%
- the answer at the exam / final evaluation	**80 %**
- periodic testing by control papers	**0 %**
- continuing testing during the semester	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**20 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Written work

Minimum requirements for 5 grade (Or how to assign 5 grade)	Minimum requirements for 10 grade (Or how to assign 10 grade)
· Average volume and average correctness of knowledge; · The average organization of the content of the taught subject; · The average scientific rigor of language; · Passing the final exam with the minimum grade of 5.	· In-depth correctness of knowledge; · Maximum organization of the content of the taught subject; · Interdisciplinary approach to aesthetic problems; · The maximum scientific rigor of language.