„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	**Anatomy and embriology I**					
Didactic function, name and surname of the course holder	**Dr. Cornevici Corina**					
Didactic function, name and surname of the laboratory holder	**Dr.Buhoară Cristina**					
The discipline code	**DM 1.1.1**	The formative category of the discipline		**FD**		
Academic year	**I**	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	8
2. Study after textbook, course support	6
3. Study of the indicated minimum bibliography	8
4. Additional documentation in the library	5
5. Specific training activity seminar and / or laboratory	8
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	5
8. Preparation of oral presentations	0
9. Preparation of final exam	5
10. Consultations	2
11. Documentation on the field	0
12. Documentation on the Internet	6
13. Tutoriing	0

14. Examinations	2
15. Other activities	0

The name of the course	**Anatomy and embriology I**		
Professional competences specific to the discipline	Correlating the notions of anatomy acquired through courses, practical work, consulting bibliography and iconography with the study of dissection of cadavers and modern presentations. Presentation of the notions of live anatomy, palpation, discoveries, clinical anatomy and modern imaging.		
Transversal competencies	Developing strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and assuming responsibility for the results of personal activity. Developing interrelationship techniques within a team; amplifying and honing empathic interpersonal communication skills and assuming specific attributions in carrying out group activity, as well as optimal time management.		
The general objective of the discipline	Presentation of the notions of embryology, arthrology, splanchnology and the topographical anatomy of the trunk and limb walls		
The specific objective of the discipline	Introducing anatomical language and explaining the importance, origin and significance of basic notions. Introducing the notions necessary to understand the functioning of various apparatuses and systems. Presentation of notions that constitute a basis for understanding other disciplines (physiology, physiopathology, etc.).		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the anatomical structural characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets the physical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1 Introductory course. History of anatomy. Romanian school of anatomy. Introductory elements of ontogenesis. Reproduction.	28
2 Gametogenesis. Primordial germ cells, gametes, divisions. Spermatogenesis. Oogenesis. Fertilization. Segmentation. Nidation.	
3 Evolution of the trophoblast and the embryonic disc.	
4 Evolution and derivatives of the embryonic leaflets	
5 Fetal period. Embryo-fetal appendages. Amniotic vesicles, yolk sac, allantois, placenta, umbilical cord. Twin and multiple pregnancy. Development of the spine and limbs. Concepts of teratology.	
6 Development of the heart. Development of the respiratory system. Malformations	
7 Development of the digestive tract. Malformations	
8 Development of the urinary, male and female genital systems. Malformations.	
9 Generalities of bones, muscles. Topographic regions. Breast region. Anterolateral thoracic and abdominal wall.	
10 Axilla. Bicipital grooves. Anterior region of the elbow. Carpal canal. Topography of the hand.	

11 Arthrology. Generalities, classification, biomechanics concepts.	
12 Trunk joints. Limb joints.	
13 Inguinal canal. Femoral triangle. Adductor canal. Popliteal region. Calcaneal canal	
14 Thoracic viscera. Abdominopelvic viscera.	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Body axes and orientation planes. Vertebrae. Sacrum, coccyx. Vertebral column as a whole	42
2 Sternum, ribs. Bony thorax. Anatomy in vivo – bony landmarks. Rib counting, vertebrae. Orientation lines. Clinical and radiological anatomy of the trunk skeleton. Spinal puncture, thoracocentesis. Clavicle, scapula, humerus, radius, ulna, hand skeleton. Anatomy in vivo – bony landmarks of the upper limb. Clinical and radiological anatomy of the upper limb skeleton.	
3 Coxal, bony pelvis. Internal, external pelvimetry. Femur, patella. Tibia, fibula, leg skeleton. Anatomy in vivo – bony landmarks of the lower limb. Clinical and radiological anatomy of the lower limb skeleton.	
4 Axilla – walls, content. Axillary artery and vein. Axillary lymph nodes. Brachial plexus.	
5 Anterior region of the arm - muscles, vessels and nerves. Anterior and lateral regions of the forearm - muscles, vessels and nerves. Superficial veins of the upper limb.	
6 Topographic regions of the palm - muscles, vessels, nerves. Posterior regions of the arm and forearm - muscles, vessels and nerves. Posterior region of the hand - muscles, vessels and nerves. Live anatomy of the upper limb. Clinical and radiological anatomy of the upper limb.	
7 Lumbar and sacral plexuses. Anterior region of the thigh - muscles, vessels and nerves. Anterior and lateral regions of the calf - muscles, vessels and nerves.	
8 Plantar and dorsal regions of the foot – muscles, vessels and nerves. Gluteal region – muscles, vessels and nerves. Posterior thigh and popliteal regions – muscles, vessels and nerves. Posterior calf region – muscles, vessels and nerves. Calcaneal canal. Superficial veins of the lower limb. Live anatomy of the lower limb. Clinical and radiological anatomy of the lower limb.	
9 Colloquium 1	
10 Muscles of the back and neck. Anterolateral thoracic wall. Vascularization, innervation.	
11 Inguinal canal. Anterolateral abdominal wall – muscles, vessels and nerves.	
12 Diaphragm. Perineum – muscles, vessels, nerves.	
13 Thorax, boundaries, live anatomy, radiological anatomy. Opening of the thoracic cavity. Pleura, pleural recesses, projections. Mediastinum.	
14 Thoracic trachea. Thoracic esophagus. Thymus. Vagus nerves in the thorax. Phrenic nerves in the thorax. Thoracic sympathetic. Great vessels in the mediastinum.	
15 Respiratory system. Lungs. Pulmonary bronchi. Pulmonary pedicle.	
16 Heart, relationships, structure. Great vessels. External configuration. Heart dissection. Internal configuration.	
17 Vascularization and innervation of the heart. Nodal tissue. Pericardial sinuses. Projection of the heart and pericardium. Projection and auscultation foci of the heart orifices.	
18 Colloquium 2	
19 Peritoneum. Abdominal esophagus. Stomach. Omental bursa. Access routes to the omental bursa. Celiac trunk. Celiac plexus.	
20 Duodenum. Pancreas. Liver, intrahepatic bile ducts. Extrahepatic bile ducts. Spleen. Supramesocolic floor. Sectional anatomy. Anatomy in vivo. Clinical applications. Radiological anatomy	
21 Mesenteric intestine. Mesentery. Cecum and vermiform appendix. Clinical applications. Colon. Mesocolon. Mesosigmoid. Rectum. Inframesocolic floor. Sectional anatomy. Anatomy in vivo. Clinical applications. Radiological anatomy.	

22 Kidney. Adrenal glands. Ureter. Bladder. Urethra.	
23 Ovary. Fallopian tube. Uterus. Vagina. Obstetric pelvis. Pelvimetry.	
24 Scrotum. Testicle. Spermatic ducts. Spermatic cord. Prostate and seminal vesicles. Penis. Erection mechanism. Pelvissubperitoneal space. Pelvic diaphragm. Perineum.	
25 Retroperitoneal space. Abdominal aorta, inferior vena cava, internal iliac artery. Abdominal-pelvic lymphatics. Abdominal-pelvic vegetative plexuses.	
26 Topographic anatomy. Abdominal-pelvic visceral projections. Tender points.	
27 Clinical and imaging anatomy of the abdomino-pelvic viscera.	
28 Colloquium 3	

Minimal bibliography

1. Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy for Students, Elsevier 2023.
2. Course support, 2024-2025

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 content of the discipline is corroborated in accordance with the needs of employers in the fields of health, medical education and dental research.

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	Laptop, video projector. Modern Power Point presentation. Interactive course. Anatomical-clinical correlations. Answers to students' questions.
Laboratory	Interactive presentation of anatomy and embryology concepts using: skeleton, bone collection, cadavers, anatomical preparations, iconography, radiological and imaging examination results.

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 concepts of human anatomy,
- to have no unexcused and unrecovered absences from practical work,
- to recognize and describe the structure of the organs to be examined.

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	**10 %**
- 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 exam with tickets - 3 descriptive topics.

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• Student attendance at least 80% of practical work with making up for all absences. • Taking the test and obtaining at least a grade of 5. (the test is retaken). • Obtaining a grade of 5 on the practical exam.	• In-depth knowledge of the concepts taught

• Minimal answers (grade 5) on the multiple-choice test	

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Dr. Cornevici Corina

Laboratory holder,
Dr.Buhoară Cristina

Date of approval in the Department
18.09.2025

„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	**Biochemistry**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Rusu Elena**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Rusu Elena**					
The discipline code	**DM 1.1.2**	The formative category of the discipline		**FD**		
Academic year	**I**	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	15
2. Study after textbook, course support	10
3. Study of the indicated minimum bibliography	4
4. Additional documentation in the library	4
5. Specific training activity seminar and / or laboratory	2
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	5
8. Preparation of oral presentations	0
9. Preparation of final exam	10
10. Consultations	2
11. Documentation on the field	0
12. Documentation on the Internet	2
13. Tutoriing	0

14. Examinations	1
15. Other activities	0

The name of the course	**Biochemistry**		
Professional competences specific to the discipline	1. Correct use of concepts in the field of chemistry and biochemistry of the oral cavity. 2. Understanding the regulation of biochemical reactions in the body and the pathological consequences of their disruption. 3. Interdisciplinary approach to concepts in the field of biochemistry. 4. Ability to independently obtain information and interpret the knowledge obtained		
Transversal competencies	1. Applying strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and assuming responsibility for the results of personal activity, creativity, common sense, analytical and critical thinking, problem solving, etc., based on the principles, norms and values of the code of professional ethics. 2. Applying interrelationship techniques within a team; amplifying and honing empathic interpersonal communication skills and assuming specific responsibilities in carrying out group activity in order to deal with/resolve individual/group conflicts, as well as optimal time management.		
The general objective of the discipline	Presentation of the importance of chemical and biochemical processes in explaining phenomena in the living world under normal and pathological conditions.		
The specific objective of the discipline	1. Introduction to chemical and biochemical language and explanation of the importance, origin and significance of basic concepts. 2. Presentation of the importance of chemical and biochemical processes in explaining phenomena in the living world and in particular at the level of the oral cavity. 3. Introduction to the concepts necessary to understand the transfer of information in the living world. 4. Knowledge and understanding of metabolic processes carried out in organs, tissues, cells. 5. Presentation of concepts that constitute a basis for understanding other disciplines (physiology, genetics, embryology, cell biology, physiopathology). 6. Ability to use modern chemical and biochemical analysis techniques. 7. Use of enzymatic determinations for the purpose of specifying the diagnosis.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the biochemical functional characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets the biochemical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1. Amino acids. Correlation of biochemistry with other medical disciplines. Structure, classification and physicochemical properties of amino acids	2
2 Proteins. Peptides - definition, structure. Important natural peptides (glutathione, insulin, angiotensin). Proteins - primary, secondary, tertiary and quaternary structure.	2

3 Proteins: Properties. Classification. Hemoglobin and myoglobin - structure and role. Plasma proteins. Immunoglobulins, fibrinogen, collagen, elastin, keratin - structure and role.	2
4 Enzymes. Generalities, classification. Enzyme specificity. Enzyme kinetics. Michaelis-Menten equation. Factors influencing the rate of enzymatic reactions.	2
5 Enzyme inhibition - Competitive, non-competitive and acompetitive inhibitors. Regulation of enzymatic activity. Allosteric enzymes. Multienzyme complexes. Isoenzymes	2
6 Fat-soluble vitamins	2
7 Water-soluble vitamins	2
8 Carbohydrates - generalities, structure. Monosaccharides, oligosaccharides, polysaccharides, aminosaccharides, deoxysaccharides - structure. Glycoproteins. Proteoglycans. Bacterial glycans and dental caries formation	2
9 Lipids. Generalities. Acylglycerols. Fatty acids. Eicosanoids, prostaglandins, leukotrienes, thromboxanes: biosynthesis, role	2
10 Nucleic acids. Structural components: nitrogenous bases, nucleotides, nucleosides. Generalities structure. DNA structure. DNA biosynthesis (replication).	2
11 RNA: classification, structure and role. RNA biosynthesis on DNA template (transcription). Genetic code. Mutations	2
12 Hormones. Definition, classification. Mechanism of action. Hypothalamic and pituitary hormones. Neurohypophyseal hormones: vasopressin and oxytocin; role.	2
13 Pancreatic hormones: insulin and glucagon; structure, biosynthesis, metabolism, regulation of secretion, biological actions. Thyroid hormones: structure, biosynthesis, transport, metabolism, regulation of secretion, biological actions. Sex hormones.	2
14 Adrenal medullary hormones: catecholamines, structure, biosynthesis, metabolism, regulation of 2h secretion, biological actions. Hormones that regulate phosphocalcic metabolism: parathyroid hormone, calcitonin, calcitriol. Role of hormones on oral structure	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. Hours**
1 Occupational safety. Solutions. Definition. Solution concentration. Ways of expressing solutions.	3
2 pH of solutions. Definition. Determination of the pH of solutions using indicators.	3
3 Buffer solutions. Definition. Determination of the pH of a buffer solution. Buffering capacity. Determination of Pka	3
4 Volumetry. Volumetric reactions based on neutralization reactions	3
5 Amino acids. General notions. Reactions for identifying amino acids	3
6 Electrophoresis. Separation of a mixture of amino acids by electrophoresis on paper. Ionization of amino acids, isoelectric pH, Peptide bond	3
7. Precipitation of proteins (reversible, irreversible). Dialysis.	3
8 Color reactions for identifying proteins	3
9 Control paper	3
10 Determination of enzymatic activity. Determination of urease activity. Determination of the MichaelisMenten constant	3
11 Factors affecting enzymatic activity. Temperature. pH. Ionic strength. Determination of salivary amylase activity under optimal conditions.	3
12 Identification of nucleic acids. Identification of structural components of nucleic acids	3
13 Rework of papers	3
14 Colloquium.	3

Minimal bibliography
1. Course support 2024-2025 2. Gerhard Meisenberg, William H. Simmons, Principles of Medical Biochemistry, 4th Edition, Elsevier, 2017, ISBN: 9780323391863 3. Lehninger Principles of Biochemistry, NELSON D COX M, Editura: W.H.Freeman & Co Ltd, 2017. ISBN: 9781319108243

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
Determining the structure, composition and physicochemical properties of chemical compounds (carbohydrates, lipids, proteins, amino acids); using the equipment and techniques necessary for the analysis of biological samples (sampling, processing and dosing of inorganic and organic compounds) according to the quality criteria of laboratory analyses; performing the dosages of the most important blood parameters (calcemia, glycemia, iron, proteinemia, transaminases) as well as interpreting the results allow the acquisition of skills necessary for carrying out practical activity in the clinical laboratory.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Interactive presentation of the material according to the analytical curriculum, using the video projector and the board. PowerPoint presentation
Laboratory	Practical and theoretical applications

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
To be admitted to the practical exam, the student must complete all the practical work. The student must know how to read a work protocol for laboratory determination and complete the experiment, obtaining and interpreting the results. Performing tests to identify compounds and performing precipitation reactions. Also, performing experiments that aim to dose compounds (acids or bases) as well as mathematical calculations regarding the concentration and titer of solutions.

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	**20 %**
- 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: Oral examination with tickets	
Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Presentation of at least 2 topics	Full presentation of the 3 topics

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,

Laboratory holder,

Assoc. Prof. PhD Rusu Elena

Date of approval in the Department
18.09.2025

Assoc. Prof. PhD Rusu Elena

„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	**Biophysics**					
Didactic function, name and surname of the course holder	**Lecturer PhD Burducea Gabriela**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Burducea Gabriela**					
The discipline code	**DM 1.1.3**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**3**

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

Number of hours per week	**3**	Of which course hours	**1**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**42**	Of which course hours	**14**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**75**		

Distribution of Time	**33 hours**
1. Deciphering and studying course notes	10
2. Study after textbook, course support	11
3. Study of the indicated minimum bibliography	4
4. Additional documentation in the library	4
5. Specific training activity seminar and / or laboratory	2
6. Achievement homework, reports, essay, translations etc	4
7. Preparation of control papers	2
8. Preparation of oral presentations	0
9. Preparation of final exam	10
10. Consultations	1
11. Documentation on the field	0
12. Documentation on the Internet	5
13. Tutoriing	1

14. Examinations	3
15. Other activities	0

The name of the course	**Biophysics**		
Professional competences specific to the discipline	Integrative thinking in the correct approach of physics concepts applied to specific biological structures. Understanding the parallelism between processes in amorphous structures and those in living structures. Abstract and synthetic thinking, ability to connect and extrapolate.		
Transversal competencies	Working with advanced mathematical methods Training skills in handling high-tech equipment Training skills in data processing and interpretation Familiarization with teamwork, task distribution		
The general objective of the discipline	The acquisition of biophysical phenomena and processes and their structuring into specific types of cells, tissues and organs in order to explain their functioning		
The specific objective of the discipline	Recognition and identification of biophysical parameters that form the basis of a correct diagnosis.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the biophysical functional characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets the physical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1. ELEMENTS OF BIOMECHANICS; deformable bodies, material strength, mechanical properties	14
2. MECHANICAL MANIFESTATIONS OF MUSCLE CONTRACTION; biophysical mechanism of contraction	
3 HEMODYNAMICS; concepts of biomechanics of Newtonian (water) and non-Newtonian fluids (blood)	
4 THERMODYNAMICS OF BIOLOGICAL SYSTEMS; thermodynamic flows and forces, entropy and enthalpy	
5 MOLECULAR STRUCTURE OF WATER IN BIOLOGICAL SYSTEMS; physics of dispersed systems, bound water	
6 TRANSPORT PHENOMENA IN SOLUTIONS; passive and active transport through the cell membrane	
7 ELEMENTS OF BIOELECTRICITY AND BIOEXCITABILITY; bioelectrogenesis of tissues and organs	
8 ELEMENTS OF BIOLOGICAL OPTICS; properties of ocular diopters, biophysics of visual reception	
9 ELEMENTS OF BIOACOUSTICS; biophysics of auditory reception, elements of phonation, ultrasound	

10 NOTIONS OF BIOCYBERNETICS; informational entropy, information transmission to the cortex, bioreceptors	
11 PHOTOBIOLOGY AND RADIOBIOLOGY; non-ionizing and ionizing radiation, effects on biological structures	
12 MODERN PHYSICAL TECHNIQUES USED IN BIOMEDICAL EXPLORATION; tomography, laser, tracers	
13 PHYSICAL STRUCTURE OF THE TOOTH; crystalline and amorphous solids, point defects, dislocations in the network	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Measurement of viscosity of biological fluids	28
2 Measurement of surface tension of biological fluids	
3 Paper chromatography	
4 Optical microscopy	
5 Electrocardiogram and electroencephalogram, vector interpretation	
6 Polarimetry, levorotatory and dextrorotatory substances	
7 Spectrophotometry	
8 Dosage of solubilized sugars, glucorefractometer, glucometer	
9 The eye as a centered optical system, the emmetropic eye and modeling of ametropias	
10 The electrical model of the cell membrane, the elevation of the current-voltage characteristic of rest/activity	
11 Audiometry, interpretation of an audiogram	
12 Dosimetry, therapeutic radiation sources	
13 Error theory, calculation of errors and their interpretation	
14 Laboratory colloquium	
Minimal bibliography	
1. Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllősi, Medicina, Budapest, 2019, ISBN: 978-963-226-127-0) 2. Course support, 2024-2025.	

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 content of the discipline is corroborated in accordance with the needs of employers in the fields of health, medical education and dental research.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Free exposition associated with rich imagery. Interactive dialogue in order to clarify some misunderstood concepts in high school. Permanent parallel between amorphous structures and biological structures.
Laboratory	Effective measurements of physical parameters by handling specific devices, according to protocols, under the direct guidance of the teacher. The result of each work is embodied in a diagnosis, graph or observation, depending on the type of work.

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

To master the theory and the way of working on the respective work by carefully reading its protocol. To collect correct data by reading directly on a device or by performing mathematical calculations. To be able to draw and interpret a graph/scheme/sketch. To apply the theory from the course and formulate correct conclusions.

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	**20 %**
- periodic testing by control papers	**0 %**
- 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 (descriptive)	
Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Carrying out all laboratory work and correctly developing 1/3 of the requirements stated in the descriptive written work	Carrying out all laboratory work, the correctness of the results obtained and the correct development of all requirements stated in the descriptive written work

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Lecturer PhD Burducea Gabriela

Laboratory holder,
Lecturer PhD Burducea Gabriela

Date of approval in the Department
18.09.2025

„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	**Physiology I**					
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 1.1.4**	The formative category of the discipline		**FD**		
Academic year	**I**	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	**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	**125**		

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

14. Examinations	0
15. Other activities	0

The name of the course	**Physiology I**		
Professional competences specific to the discipline	A. Useful in further development as a student: 1. The general concepts taught in the Physiology course: - allow understanding the functioning of the body as a unitary whole and to position in the general economy of the body, the place and importance of the normal function of the cardiovascular system and its disturbances. 2. The topic of the practical works in Physiology allows knowing the limits of variation of normal values, of some laboratory and paraclinical investigations, concepts necessary for students in the following years, to master the way in which the positive and differential diagnosis of a disease is established. B. For the professional activity as a practicing physician: 1. By acquiring some course concepts and practical work in the discipline of Physiology, the future provider of medical services, as a result of the knowledge of 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 state of health - realize that by performing the required medical service in a quality manner, as close as possible to the physiological one, it contributes to the achievement of 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 lay the foundation for the minimum level of knowledge necessary to understand and master the topics of the disciplines in the following years of study, such as: immunology, general pathology, pharmacology, pathological anatomy, medical semiology, internal medicine, surgery, etc.		
The general objective of the discipline	- physiology and exploration of the blood, cardiovascular, respiratory and renal systems		
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		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the physiological functional characteristics of the healthy human body, as well as scientific methods, particularly the principles of measuring biological functions.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets physical, chemical, and biochemical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

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

1 Introduction to physiology. Functional organization of the human body and control of homeostasis. Fluid compartments of the body. Edema	14
2 Properties and functions of blood. Blood composition. Blood plasma. Plasma proteins	
3. Hematopoiesis. Erythropoiesis. Erythrocytes	
4 Granulopoiesis, leukocytes, leukocyte formula, monocyte-macrophage system,	
5 Phagocytosis	
6 Body resistance to infections - immunity	
7 Platelets. ABO, Rh blood groups, Transfusion	
8 Notions of anatomy and physiology of the cardiovascular system, structure of the heart wall, valvular apparatus of the heart, large and small circulation, excito-conductive tissue.	
9 Properties of the heart. Excitability, Automatism, Conductivity, Contractility, Tonicity	
10 Physiology of systemic circulation. Arterial circulation: Functional anatomy and properties of the arterial wall. Arterial pressure, arterial pulse. Venous circulation: functional characteristics of the veins, factors that ensure venous circulation.	
11Structural organization of the contractile apparatus of the myocardial cell. Mechanism of myocardial contraction. Electro-contractile couple at the myocardial cell level. Cardiac cycle. Functional anatomy of the lung, the role of surfactant, breathing mechanics, lung volumes and capacities, ventilation/perfusion ratio, alveolar-capillary diffusion	
12 Functional anatomy of the lung, the role of surfactant, breathing mechanics, lung volumes and capacities, ventilation/perfusion ratio, alveolar-capillary diffusion	
13 Functional renal anatomy. Functions of the kidney. Urine formation-filtration, reabsorption and secretion	
14 Regulation of renal function	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Introduction. The importance of functional exploration in the clinic.	42
2 Determination of some properties of the internal environment-density, viscosity, osmotic pressure, colloid-osmotic pressure	
3 Determination of blood volume. Ht,	
4 Erythrocyte count, ESR, Hb	
5 Leukocyte count, leukocyte formula	
6 Determination of blood groups in the ABO and Rh systems	
7 Exploration of primary hemostasis, determination of bleeding time and capillary fragility	
8 Control work	
9 Exploration of the electrical activity of the heart-EKG	
10 Analysis and interpretation of a normal EKG	
11 Spirometry, lung volumes and capacities, pharmacodynamic tests	
12 Renal functional exploration	
13 Control work	

Minimal bibliography

1. Course support 2024-2025.
2. John E. Hall, Michael E. Hall, Guyton and hall textbook of medical physiology, Elsevier, 2020.

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 study of intrinsic structural mechanisms specific to physiology represents the fundamental basis necessary for understanding the knowledge that will be acquired in clinical and specialized disciplines. The analytical program determines the training of true professionals who will treat patients with ever-increasing needs.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Free and interactive presentation in computer projection system (power point)
Laboratory	Practical work carried out by the teacher, practical work carried out by the students after watching the teacher

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Developing skills related to laboratory activity: performing biochemical analyses, demonstrating 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.

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	**40 %**
- periodic testing by control papers	**10 %**
- 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)

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 acquisition of the subject

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Cristescu Cristina Daniela

Laboratory holder,
Assoc. Prof. PhD Cristescu Cristina Daniela

Date of approval in the Department
18.09.2025

„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	**Cell and molecular biology**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Necula Laura Georgiana**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Necula Laura Georgiana**					
The discipline code	**DM 1.1.5**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**3**

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

Number of hours per week	**3**	Of which course hours	**1**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**42**	Of which course hours	**14**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**75**		

Distribution of Time	**33 hours**
1. Deciphering and studying course notes	6
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	6
4. Additional documentation in the library	3
5. Specific training activity seminar and / or laboratory	5
6. Achievement homework, reports, essay, translations etc	0
7. Preparation of control papers	3
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	Cell and molecular biology		
Professional competences specific to the discipline	Acquisition of theoretical and practical notions regarding the structure of the cell, tissues, elements that enter the structure of the organs of the human body. Development of analysis and synthesis capacities by assembling the defining tissue elements in the architecture and functionality of the body. Practical implementation of theoretical notions through concrete reporting to the microscopic image.		
Transversal competencies	It presents specialized concepts and terms in medicine, dentistry that will be used throughout the course, as well as in practice. The histological structure and morphology of the tooth represent the basic elements in the training of future specialists.		
The general objective of the discipline	The course consists of two parts: cell biology and general and special histology. The objective of the course is to deepen the molecular mechanisms within the activity of cells, tissues and organs.		
The specific objective of the discipline	Orientation of students in the field of microscopic morphology, through an approach from the cellular level to the molecular level. Development of analysis and synthesis capacities, by assembling tissue elements, defining the architecture and functionality of the organism in integrative systems. Implementation of theoretical concepts, through concrete reporting to the microscopic image. Connecting the knowledge accumulated in other related fundamental disciplines (biochemistry, immunology, genetics, physiology, pathophysiology in order to define the pathological substrate, operational, in clinical practice.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the cellular and molecular structural characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets physical, chemical, and biochemical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1 Course object, history; Cell – organizational models, chemical composition	14
2 Cell membrane and endomembranes, molecular organization	
3 Membrane transport I	
4 Membrane transport II	
5 Cell signaling; Receptors, Signal transduction	
6 Cytoplasm, cytoskeleton, cell motility	
7 Specialized membrane structures - intercellular junctions	
8 Nucleus: nuclear envelope, nucleoplasm; chromatin organization	
9 Genes: expression regulation, EK gene structure and organization, transcription and translation process (proteosynthesis)	
10 Ribosomes; proteasomes. Cytoplasmic inclusions.	

11 Endoplasmic reticulum and Golgi complex	
12 Post-biosynthetic processing of proteins	
13 Mitochondria	
14 Lysosomes, peroxisomes, vesicle trafficking	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 General aspects of the study of the cell.	28
2. Notions of microscopic technique: optical microscopy.	
3. Notions of microscopic technique: electron microscopy.	
4. Microscopic preparation; stages of obtaining.	
5. Staining.	
6. Cell structure under the optical microscope - appearance of the nucleus, cytoplasm, organelles.	
7. Ultrastructure of the cell. Cell membranes.	
8. Ultrastructure of the cell. Organelles and nucleus.	
9. Cell cultures.	
10. Cell cycle and cell division	
11. In silico analysis of biological information.	
12. Biomedical databases. Molecular diagnostics. Proteomic approaches.	
13. Recapitulation of the material from the practical papers. Preparation for the practical exam.	
14. Practical paper exam.	

Minimal bibliography

1. „Essential Cell Biology", Bruce Alberts, Karen Hopkin, Alexander D. Johnson, David Morgan, Martin Raff, Keith Roberts, Peter Walter, 5th Edition, W.W. Norton & Company, 2019
2. Course support 2024-2025.

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 study of the intrinsic structural and functional mechanisms characteristic of the subject represents the foundation for understanding the knowledge that will be acquired in clinical internships, allowing the development of research and clinical laboratories, resulting in a good insertion of graduates into the labor market. The analytical program of the discipline determines the training of professional doctors who will serve European citizens/patients with equal rights and growing needs.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Use of the video projector, Power Point presentation
Laboratory	Use of the molecular biology laboratory Kits used in molecular analysis techniques Specific laboratory equipment, reagents and consumables.

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 all papers provided in the analytical program
Passing the practical exam in the laboratory
Knowledge of using the optical microscope and interpreting images in different types of microscopy
Making microscopic preparations
Skills in working with pipettes and solutions

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	**10 %**
- 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

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 is a condition for admission to the final examination • achieving a score of 50% on the written exam	• maximum score on the testing during the semester, on the practical exam and the corresponding score on the written exam

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof.PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Necula Laura Georgiana

Laboratory holder,
Assoc. Prof. PhD Necula Laura Georgiana

Date of approval in the Department
18.09.2025

„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	**Medical informatics and biostatistics**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Apostolescu Cătălin**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Apostolescu Cătălin**					
The discipline code	**DM 1.1.6**	The formative category of the discipline		**CD**		
Academic year	**I**	Semester*	**I**	Type of final evaluation (**E, V, C**)		**V**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**3**

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

Number of hours per week	**3**	Of which course hours	**1**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**42**	Of which course hours	**14**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**75**		

Distribution of Time	**33 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	5
5. Specific training activity seminar and / or laboratory	5
6. Achievement homework, reports, essay, translations etc	5
7. Preparation of control papers	0
8. Preparation of oral presentations	3
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	

The name of the course	**Medical informatics and biostatistics**		
Professional competences specific to the discipline	The student will have to demonstrate the ability to understand and master the specific terms of the field of Information Technology, namely the glossary of essential terms used in medical informatics. The student will have to demonstrate the ability to understand and use the main hardware (PC) and software tools used in the field of informatics in general and medical informatics in particular. He must know the main branches and areas of interest in the field of medical informatics, as well as the main ways of computer-assisted biomedical practice and research.		
Transversal competencies	Familiarization with the specific technologies of the Information Society, with the norms of online ethics and conduct, with the security risks related to information management in digital environments. Familiarization with the use of synchronous and asynchronous e-learning platforms, respectively with the "adaptive assessment server" online testing solutions used by most digital competence testing centers internationally.		
The general objective of the discipline	General computer knowledge Ability to analyze and synthesize Ability to work in a team Ability to evaluate and self-assess		
The specific objective of the discipline	Competencies regarding the knowledge and appropriate use of common terms in computer science; Computer operating skills; Competencies regarding the drafting of electronic documents; Competencies regarding information and documentation through computer means; Management and analysis of data structured in tables; Use of computer elements in hospitals and offices		
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 correctly interprets, manages, and reports knowledge of information technology for documentation, analysis, and communication of information.	The student/graduate efficiently integrates informational sources and professional training and communication resources (internet portals, specialized software applications, databases, online courses, etc.).

The content of the course – Analytical Syllabus	**No. hours**
1 Introductory notions: peripheral equipment, storage media, networks, optical fiber, internet.	14
2 Fundamental notions of statistics: application of these notions in the medical field, use of the statistical facilities of the Microsoft Excel program, framing medical bistatistics as an interdisciplinary approach	
3 Practical examples: specific data sets for each statistical component, analysis and commenting on the results at the level of each statistical component	
4 Univariate graphic synthesis applied in medicine: pie charts. bar and column charts, frequency polygons, histograms, random measurement error curve.	
5 Biomedical distributions; Ways of grouping medical statistical data; Location indicators: classification scales; Scattering indicators: dispersion, standard deviation, percentage coefficient	

of variability; Normal distribution in statistics and in biomedicine; Treatment of qualitative variables (percentages).	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Introductory concepts: peripheral equipment, concepts about networks, operating systems, Microsoft Office (Word)	28
2 Elementary concepts of statistics and their application in Microsoft Excel (statistical calculations, types of graphs)	
3 Practical examples: specific data sets for each biomedical statistical component analyzed; analysis and commenting on the results	
Minimal bibliography	
1. Medical biostatistics – A. Indrayan, Chapman & Hall Publishing, Second Edition, 2018 2. Bailar, John C./ Hoaglin, David C, 2009 - Medical uses of statistics, John Wiley & Sons Inc., 2019 3. Course support 2024-2025	

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, 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 employers in the health field.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Multimedia projection of the material according to the analytical curriculum accompanied by interactive programmed learning, in order to form the practical skill of the theoretical notions accumulated and mastered
Laboratory	Practical applications of the theoretical concepts taught. Practical demonstrations, e-learning methods.

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Understanding the basic glossary with specialized terms in the field of Information Technology, respectively specific terms of medical informatics The ability to efficiently use online documentation tools and services The ability to efficiently use advanced office automation solutions for drafting/editing electronic documents with a required format

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	**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:
Practical Individual Exam, Scientific Report, Descriptive Written Work **, 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 basics	In-depth knowledge of theoretical concepts

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Apostolescu Cătălin

Laboratory holder,
Assoc. Prof. PhD Apostolescu Cătălin

Date of approval in the Department
18.09.2025

„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	**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 1.1.7**	The formative category of the discipline		**CD**		
Academic year	**I**	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	**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		
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

Date of completion
15.09.2025

Director of the Department,
Prof. PhD Comăneanu Raluca Monica

Course holder,
Prof. PhD Răescu Mihaela

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	**BACHELOR DEGREE**
Study program	**Dental Medicine**

Discipline name	**Romanian I**					
Didactic function, name and surname of the course holder	**-**					
Didactic function, name and surname of the laboratory holder	**Lecturer Buză Iulia Iuliana**					
The discipline code	**DM 1.1.8**	The formative category of the discipline		**CD**		
Academic year	**I**	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	**2**	Of which course hours	**-**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**28**	Of which course hours	**-**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**50**		

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

13. Tutoriing	0,5
14. Examinations	0,5
15. Other activities	0,5

The name of the course	**Romanian I**		
Professional competences specific to the discipline	• Understanding and using basic Romanian vocabulary in everyday and academic contexts. • Developing listening, reading, speaking, and writing skills at an elementary level (A1–A2). • Correct use of basic grammatical structures of the Romanian language. • Applying elementary language skills in real-life communication situations, both orally and in writing. • Understanding and interpreting simple texts related to Romanian culture and society.		
Transversal competencies	• Ability to communicate effectively and respectfully in an intercultural environment. • Development of autonomous learning strategies for language acquisition. • Adaptability and integration in academic and social contexts within a Romanian-speaking environment.		
The general objective of the discipline	To provide students with the foundational knowledge and skills in the Romanian language necessary for academic and everyday communication, enabling them to integrate into the Romanian academic and social environment.		
The specific objective of the discipline	• To familiarize students with Romanian phonetics, basic vocabulary, and fundamental grammar structures. • To develop students' basic oral and written communication skills. • To train students to understand and produce simple texts and dialogues in Romanian. • To introduce students to basic elements of Romanian culture and civilization as part of the language learning process.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate describes synchronically and diachronically the main linguistic phenomena and grammatical constructions of English and Romanian and analyzes texts in English and Romanian.	The student/graduate applies linguistic norms both in the mother tongue and in the studied foreign languages.	The student/graduate uses appropriate expressions and words in the production of oral and written texts.

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1The Romanian alphabet. Pronunciation, stress, and intonation. Greetings and introductions	1 h
2 Nouns: gender and number. Definite and indefinite articles	1h
3 Adjectives: agreement with nouns. Basic descriptive vocabulary	1h
4 Verbs *a fi* (to be) and *a avea* (to have). Present tense of regular verbs	1h

5 Numbers: cardinal and ordinal. Days, months, time and date expressions	1h
6 Family vocabulary. Reflexive verbs. Personal pronouns	1h
7 Food and drink. Modal verbs: *to want*, *can*, *must*. Expressing preferences	1h
8 Describing people: physical and emotional states. Useful expressions and vocabulary	1h
9 Describing the home. Furniture. Expressing possession and spatial relations	1h
10 Around the city: asking for directions, places in town. Prepositions of place	1h
11 Daily routines. Frequency adverbs. Talking about habitual actions	1h
12 Practical situations: at the shop, doctor, restaurant. Dialogues and context-based vocabulary	1h
13 Simple narrative texts. Chronological order. Basic connectors (*then, after that, finally*)	1h
14 Revision and assessment. Preparation for the final test	1h

Minimal bibliography

1. **Cristina Valentina, Laura Elena Pascale** – *Limba și literatura română. Manual pentru studenții străini din anul pregătitor*, Editura Universitară
   (Main textbook)
2. **Iulia Dafinoiu** – *Limba română ca limbă străină. Manual pentru anul pregătitor*, Editura Ovidius University Press
   (Very good for practical grammar and vocabulary use, level A1–A2)
3. **Doina Goșa**, **Rodica Zafiu** – *Gramatica practică a limbii române pentru studenții străini*, Editura Universității din București
   (A classic resource for grammar explanations and exercises, structured clearly)
4. **Angela Bidu-Vrănceanu et al.** – *Dicționar de termeni lingvistici*, Editura Științifică
   (Useful for linguistic terminology, especially for advanced learners or academic explanations)
5. **Florentina Sâmihăian, Liliana Ionescu-Ruxăndoiu** – *Lectura textului literar și nonliterar*, Editura Didactică și Pedagogică
   (Good source for integrating reading comprehension, especially in cultural modules)
6. **Lucia Wald, Ileana Grecu** – *Limba română practică pentru studenții străini*, Editura Universității din București
   (Useful for communication-focused lessons and thematic vocabulary)
7. **Mihaela Moroșanu** – *Exerciții de gramatică practică a limbii române ca limbă străină*, Editura Institutul Limbii Române
   (Excellent for homework or self-study practice)
8. **Institutul Limbii Române** (coordonator) – *Curriculum de limba română pentru anul pregătitor*
   (Framework for structuring content by CEFR levels – A1/A2/B1)
9. **Ioana Vintilă-Rădulescu (coord.)** – *Gramatica limbii române pentru studenții străini*
   (Clear grammar explanations with applied exercises for international students)
10. **Online resources:**

- **www.limbi-romane.ro** – platformă de exerciții interactive și resurse audio-video
- **Institutul Limbii Române** – www.ilr.ro – pentru standarde, examene și publicații oficiale

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**
Laboratory	- Communicative and interactive teaching methods (dialogues, role-play, pair and group work) - Use of visual, audio and multimedia materials (videos, images, pronunciation tools) - Grammar and vocabulary drills (exercises for consolidation and production) - Text analysis and comprehension (short texts, dialogues, cultural excerpts) - Task-based learning (projects, practical activities, situational simulations) - Guided conversation and oral practice sessions (with a focus on fluency and accuracy) - Use of digital tools (online dictionaries, platforms like Kahoot, Quizlet, Google Forms, Wordwall etc.)

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
The student must demonstrate the following minimum requirements in order to be admitted to the final assessment: • Regular attendance and active participation in at least **75% of the laboratory/seminar sessions**. • Completion of assigned practical tasks (e.g. exercises, short texts, translations, oral dialogues) with a minimum level of accuracy and coherence. • Ability to understand and use basic Romanian vocabulary and grammatical structures covered in class. • Submission of at least **two written tasks** (homework, mini-project, or composition) and **participation in at least one oral activity** (dialogue, role-play, or short presentation). • Respecting deadlines and academic conduct requirements (original work, no plagiarism). Students who do not meet these minimum conditions will not be admitted to the final exam.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**30 %**
- the final answer at the practical exam at laboratory	**20 %**
- periodic testing by control papers	**15 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**20 %**
- other sctivity	**5 %**

Describe the practical ways of final assessment, E:
Practical Individual Exam, Scientific Report, Descriptive Written Work **, E:** Written work (descriptive and test)

The final assessment consists of both written and oral/practical components designed to evaluate the student's language acquisition and communicative competence. These include:

- **E: Practical Individual Exam** – An oral exam based on communicative tasks (dialogue, description, answering questions, interpreting a short text), assessing fluency, accuracy, and pronunciation.
- **E: Scientific Report / Descriptive Written Work** – A written task (short essay or descriptive composition) on a familiar topic, allowing evaluation of vocabulary range, grammar, coherence, and structure.
- **E: Written Work (Descriptive and Test Format)** – A structured written exam combining a short descriptive text (based on prompts or personal experience) and grammar/vocabulary exercises (e.g. fill-in-the-blanks, matching, short answers).

Each component reflects the learning outcomes set for the preparatory year and is aligned with CEFR levels A1–A2.

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
In order to obtain the minimum passing grade (5), the student must: • Attend at least **75% of the practical/laboratory classes**; • Demonstrate **basic understanding** of the Romanian language structures (A1–A2 level); • Use correctly a **limited but functional vocabulary** in simple written and oral tasks; • **Complete and submit** at least **50% of the assigned homework, essays, translations, or reports**; • Obtain a **minimum score of 50%** in the final written and/or oral exam (grammar, vocabulary, short text production); • Be able to produce **a short descriptive paragraph** on a familiar topic with acceptable grammar and structure; • Participate at a **basic level in a simple oral conversation**, showing understanding and the ability to respond appropriately.	In order to obtain the maximum grade (10), the student must: • Attend **at least 90–100%** of laboratory/seminar classes and actively participate in all activities; • Demonstrate **excellent command** of Romanian at A2 level (or higher), with very good grammar accuracy and lexical range; • Use a **rich and appropriate vocabulary** both in written and oral communication, with minimal errors; • Complete **all assigned tasks** (homework, essays, translations, projects) with clarity, originality, and correctness; • Obtain **90% or above** on the final written and oral/practical exams; • Produce **well-structured written texts** (descriptive, narrative or argumentative, depending on level) using connectors and appropriate style; • Participate confidently and fluently in **oral conversations, role-plays or**

Failing to meet these criteria results in a grade lower than 5.	**presentations**, demonstrating accuracy, pronunciation, and spontaneity; • Show initiative in class, creativity in tasks, and an **independent learning attitude**. Achieving these standards reflects a high level of engagement and linguistic performance, in line with the objectives of the course.

Date of completion
15.09.2025

Director of the Department,

Course holder,
-

Laboratory holder,
Lecturer Buză Iulia Iuliana

Date of approval in the Department
18.09.2025

„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	**Anatomy and embriology II**					
Didactic function, name and surname of the course holder	**Dr.Cornevici Corina**					
Didactic function, name and surname of the laboratory holder	**Dr.Buhoară Cristina**					
The discipline code	**DM 1.2.9**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**II**	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	5
2. Study after textbook, course support	5
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	5
7. Preparation of control papers	5
8. Preparation of oral presentations	5
9. Preparation of final exam	5
10. Consultations	5
11. Documentation on the field	0
12. Documentation on the Internet	0

13. Tutoriing	0
14. Examinations	5
15. Other activities	0

The name of the course	**Anatomy and embriology II**		
Professional competences specific to the discipline	Correlating the notions of anatomy acquired through courses, practical work, consulting bibliography and iconography with the study of dissection of cadavers and modern presentations. Presentation of the notions of live anatomy, palpation, discoveries, clinical anatomy and modern imaging.		
Transversal competencies	Developing strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and assuming responsibility for the results of personal activity. Developing interrelationship techniques within a team; amplifying and honing empathic interpersonal communication skills and assuming specific attributions in carrying out group activity, as well as optimal time management.		
The general objective of the discipline	Presentation of the concepts of special embryology and descriptive anatomy of the head and neck.		
The specific objective of the discipline	Acquiring an adequate medical language. Mastering the anatomical substrate of the main symptomatology. Studying the involvement of normal anatomical elements in the production of pathological aspects, within clinical anatomy.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the anatomical structural characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets the physical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1 Skull. Neurocranium, viscerocranium	28
2 Skull architectonics. Craniometry. Anthropometric points	
3 Skull development	
4 Oral cavity. Tongue	
5 Teeth	
6 Temporomandibular joint	
7 Branchial arches, pharyngeal pouches. Derivatives	
8 Primitive mouth, mesobranchial field. Derivatives. Malformations.	
9 Spinal cord, brainstem, cerebellum.	
10 Diencephalon, cerebral hemispheres	
11 Analyzers: olfactory, optic, gustatory, acoustic, vestibular	
12 Cranial nerves	
13 Nasal cavity	
14 Pharynx. Larynx. Trachea	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**

1 1. Skull, general presentation. Bones of the neurocranium and viscerocranium. Calvaria	42
2 Exobasis – anterior floor	
3 Exobasis – middle and posterior floors	
4 Endobase – anterior floor	
5 Endobase – middle and posterior floors	
6 Teeth	
7 Norma lateralis. Temporal, infratemporal, pterygopalatine fossae	
8 Norma frontalis. Orbit, nasal fossae.	
9 Colloquium 1	
10 Head dissection. Mimic muscles. Facial nerve. Parotid gland. Facial, superficial temporal vessels. Auriculotemporal nerve	
11 Dissection of the masticatory muscles. Sectioning of the mandible. Maxillary artery, branches. Trigeminal nerve	
12 Ophthalmic nerve. Maxillary nerve. Mandibular nerve. Ciliary, pterygopalatine, otic, submandibular ganglia. Sublingual and submandibular glands.	
13 Analyzers. Eye. Ear.	
14 Meninges. Arterial vascularization of the brain. Venous sinuses of the dura mater.	
15. Intracranial path of cranial nerves	
16 Clinical and imaging anatomy of the central nervous system	
17 Colloquium 2	
18 Neck dissection. Superficial veins of the neck. Infrahyoid muscles. Cervical fasciae. Cervical plexus. Phrenic nerve in the cervical region	
19 Dissection of the neurovascular bundle of the neck. Carotid trigone. Thyroid, parathyroid glands	
20 Suprahyoid muscles. Submandibular trigone. Lingual artery. Hypoglossal nerve	
21 Cervical sympathetic. Prevertebral muscles. Lymphatics of the head and neck.	
22 Sternocleidomastoid, scalene muscles. Accessory nerve. Supraclavicular part of the brachial plexus	
23 Dissection of the subclavian artery and vein.	
24 Glossopharyngeal nerves, vagus. Larynx, cervical trachea, cervical esophagus	
25 Oral cavity, tongue	
26 Pharynx	
27 Live anatomy of the head and neck. Clinical and imaging anatomy.	
28 Colloquium 3	

Minimal bibliography

1. Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy for Students, Elsevier 2023.
2. Course support, 2024-2025

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 content of the discipline is corroborated in accordance with the needs of employers in the fields of health, medical education and dental research.

Mode of transmission of information:

Forms of activity	Teaching methods used
Course	Laptop, video projector. Modern Power Point presentation. Anatomical-clinical correlations. Answers to students' questions.
Laboratory	Interactive presentation of anatomy and embryology concepts using: skeleton, bone collection, cadavers, anatomical preparations, iconography, radiological and imaging examination results.

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 concepts of human anatomy, - to have no unexcused and unrecovered absences from practical work, - to recognize and describe the structure of the organs to be examined.

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	**10 %**
- 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)
• Student attendance at least 80% of practical work with making up for all absences. • Passing the test and obtaining at least a grade of 5. (the test is retaken). • Obtaining a grade of 5 on the practical exam. • Minimal answers (grade 5) to the grid test	• In-depth knowledge of the concepts taught •

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Dr.Cornevici Corina

Laboratory holder,
Dr.Buhoară Cristina

Date of approval in the Department
18.09.2025

„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	**Biochemistry of oral cavity**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Rusu Elena**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Rusu Elena**					
The discipline code	**DM 1.2.10**	The formative category of the discipline		**SD**		
Academic year	**I**	Semester*	**II**	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	10
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	5
7. Preparation of control papers	10
8. Preparation of oral presentations	1
9. Preparation of final exam	10
10. Consultations	2
11. Documentation on the field	1
12. Documentation on the Internet	2

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

The name of the course	**Biochemistry of oral cavity**		
Professional competences specific to the discipline	1. Correct use of concepts in the field of chemistry and biochemistry of the oral cavity. 2. Understanding the regulation of biochemical reactions in the body and the pathological consequences of their disruption. 3. Interdisciplinary approach to concepts in the field of biochemistry. 4. Ability to independently obtain information and interpret the knowledge obtained		
Transversal competencies	1. Applying strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and assuming responsibility for the results of personal activity, creativity, common sense, analytical and critical thinking, problem solving, etc., based on the principles, norms and values of the code of professional ethics. 2. Applying interrelationship techniques within a team; amplifying and honing empathic interpersonal communication skills and assuming specific responsibilities in carrying out group activity in order to deal with/resolve individual/group conflicts, as well as optimal time management.		
The general objective of the discipline	Presentation of the importance of chemical and biochemical processes in explaining phenomena in the living world under normal and pathological conditions.		
The specific objective of the discipline	1. Introduction to chemical and biochemical language and explanation of the importance, origin and significance of basic concepts. 2. Presentation of the importance of chemical and biochemical processes in explaining phenomena in the living world and in particular at the level of the oral cavity. 3. Introduction to the concepts necessary to understand the way information is transferred in the living world. 4. Knowledge and understanding of metabolic processes carried out in organs, tissues, cells. 5. Presentation of concepts that constitute a basis for understanding other disciplines (physiology, genetics, embryology, cell biology, physiopathology). 6. Ability to use modern chemical and biochemical analysis techniques. 7. Use of enzymatic determinations for the purpose of specifying the diagnosis.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, assesses, and appropriately analyzes the influence of the natural environment on the health status of the human organism, with particularities related to dentistry.	The student/graduate identifies, evaluates, and interprets environmental factors that contribute to maintaining health or to the development of diseases.	The student/graduate informs patients regarding the etiology and prevention of oro-maxillo-facial disorders.

The content of the course – Analytical Syllabus	**No. hours**
1 Metabolism energetic. Termodinamicã chimicã. Reacţii de oxidoreducere. Cuplarea reactiilor endergonice cu cele exergonice. Tipuri de reactii la care participa ATP	2
2 Lantul transportor de electroni si fosforilarea oxidativa. Sinteza ATP. Radicali liberi ai oxigenului. Fagocitoza	2

3 Metabolismul glucidic. Digestia si absorbţia glucidelor. Glicoliză: etape, reglare, bilant energetic	2
4 Decarboxilarea acidului piruvic. Ciclul Krebs. Calea pentozofosfaţilor	2
5 Calea acidului glucuronic. Gluconeogeneza, ciclul Cori, ciclul alanina-glucoza, reglarea gluconeogenezei	2
6 Metabolismul glicogenului. Glicogenogeneza si glicogenoliza. Reglarea metabolismului glicogenului. Metabolismul fructozei şi galactozei	2
7 Metabolismul lipidic. Digestia şi absorbţia lipidelor. Degradarea acizilor grasi prin -oxidare	2
8 Biosinteza acizilor graşi. Metabolismul trigliceridelor	2
9 Metabolismul colesterolului. Metabolismul corpilor cetonici. Reglarea cetogenezei	2
10 Metabolismul lipoproteinelor plasmatice	2
11 Metabolismul aminoacizilor si proteinelor. Digestia si absorbtia proteinelor. Degradarea intracelulară a proteinelor. Reactii de transaminare	2
12 Ciclul ureogenetic. Biosinteza şi degradarea hemului. Izoenzimele hemoxigenazei	2
13 Biochimia dintilor si a placii dentare. Compozitia chimica a principalelor structuri ale dintilor. Aspecte biochimice ale cariogenezei	2
14 Biochimia salivei. Saliva: compozitie, proprietati, functii	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Mineral compounds. Determination of calcium, magnesium and phosphorus in serum	2
2 Mineral compounds. Determination of chlorine, copper and iron in serum	2
3 Carbohydrate metabolism. Determination of serum glucose. Identification reactions of monosaccharides, disaccharides and polysaccharides.	2
4 Determination of glucose with o-toluidine	2
5 Determination of total serum proteins. Electrophoresis of serum proteins. Dysproteinemia tests	2
6 Determination of serum transaminases (AST and ALT). Plasma enzymes.	2
7 γ-glutamyl transpeptidase. Determination of serum phosphatases (alkaline and acid). Creatine phosphokinase. Lactate dehydrogenase.	2
8 Determination of total serum lipids. Determination of cholesterol and triacylglycerols.	2
9 Control paper	2
10 Total bilirubin dosage, Urea, uric acid and creatinine dosage	2
11 Physico-chemical examination of urine. Urinary components with pathological significance.	2
12 Chemical composition of saliva. Determination of buffer capacity. Identification of salivary ions.	2
13 Rework of papers.	2
14 Colloquium.	2

Minimal bibliography

1. Gerhard Meisenberg, William H. Simmons, Principles of Medical Biochemistry, 4th Edition, Elsevier, 2017, ISBN: 9780323391863
2. Lehninger Principles of Biochemistry, NELSON D COX M, Editura: W.H.Freeman & Co Ltd, 2017. ISBN: 9781319108243
3. Course support 2024-2025

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

Determining the structure, composition and physicochemical properties of chemical compounds (carbohydrates, lipids, proteins, amino acids); using the equipment and techniques necessary for the analysis of biological samples

(sampling, processing and dosing of inorganic and organic compounds) according to the quality criteria of laboratory analyses; performing the dosages of the most important blood parameters (calcemia, glycemia, iron, proteinemia, transaminases) as well as interpreting the results allow the acquisition of skills necessary for carrying out practical activity in the clinical laboratory.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Interactive presentation of the material according to the analytical curriculum, using the video projector and the board. PowerPoint presentation.
Laboratory	Practical and theoretical applications

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
For admission to the practical exam, the student must complete all the practical work. The student must know how to read a work protocol for laboratory determination and complete the experiment, obtaining and interpreting the results. Performing tests to identify some compounds and performing the specific reactions given by them. Also, performing experiments aimed at dosing some compounds (carbohydrates. Lipids, proteins) as well as mathematical calculations regarding the concentration and titer of some solutions. Interpreting the results and their clinical significance

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	**20 %**
- 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: Oral examination with tickets - 3 descriptive topics

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
Presentation of at least 2 topics	Full presentation of the 3 topics

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof.PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Rusu Elena

Laboratory holder,
Assoc. Prof. PhD Rusu Elena

Date of approval in the Department
18.09.2025

„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	**Physiology II**					
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 1.2.11**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**II**	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	**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	**125**		

Distribution of Time	**69 hours**
1. Deciphering and studying course notes	7
2. Study after textbook, course support	7
3. Study of the indicated minimum bibliography	3
4. Additional documentation in the library	2
5. Specific training activity seminar and / or laboratory	7
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	8
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	2

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

The name of the course	**Physiology II**		
Professional competences specific to the discipline	Understanding the functioning of the orofacial system as a unitary whole and positioning in the general economy of the body, the place and importance of the normal function of the dentomaxillary and digestive apparatus as well as its disturbances.		
Transversal competencies	Acquiring the minimum level of knowledge necessary to understand the subject matter of the subjects in the following years of study		
The general objective of the discipline	Physiology of the orofacial system.		
The specific objective of the discipline	Knowledge of the functions of the orofacial system and its interrelationships.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the physiological functional characteristics of the healthy human body, as well as scientific methods, particularly the principles of measuring biological functions.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets physical, chemical, and biochemical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1 Physiology of the orofacial system - formation of the face, neuro- and viscerocranial development after birth, skull architecture, vertical pillars of resistance at the level of the facial massif	14
2 Nutrition, the body's caloric requirement, food ration	
3 Physiology of the oral cavity, the receptive area of the oral cavity, the roles played by the oral cavity	
4 Dentition. Mechanical phenomena of oral digestion. Mastication. Functional importance of mastication. Efficiency of mastication. Masticatory reflex	
5 Salivary secretion. Salivary volume and flow. Factors influencing salivary secretion	
6 Composition and properties of saliva. Roles of saliva. Regulation of salivary secretion	
7 Exploration of the buco-pharyng-esophageal stage of digestion. Swallowing	
8 Gastric digestion. Notions of stomach anatomy. Structure and particularities of the gastric wall. Gastric secretion. Composition of gastric juice. Regulation of gastric secretion	
9 Motor function of the stomach. Regulation of gastric motility	
10 Intestinal digestion. Pancreas - notions of functional anatomy. Pancreatic secretion. Regulation of pancreatic secretion	

11 Bile secretion. Properties, composition and roles of bile. Regulation of bile secretion and motility	
12 Notions of functional anatomy of the small intestine. Intestinal motility. Regulation motility	
13 Digestion and absorption of the main nutrients at the intestinal level	
14 Secretion and motility of the large intestine	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Facial formation. Anthropometric points at the facial level. Facial examination	42
2 Physiology of the oral cavity, anatomical concepts, oral cavity examination. Roles of the oral cavity	
3 Dentition. Eruption of temporary and permanent dentition. Common, group and individual characteristics of teeth. Structure of teeth	
4 Mandibular movements. Mastication. Strength and efficiency of mastication. Physiological importance of efficient mastication	
5 Exploration of salivary secretion. Composition of saliva. Digestive and non-digestive roles of saliva	
6 Swallowing. Oral, pharyngeal and esophageal times of swallowing	
7 Exploration of gastric secretion. Gastric tube	
8 Control work	
9 Exploration of pancreatic secretion	
10 Exploration of biliary secretion. Tests used in the exploration of excreto-biliary syndrome	
11 Exploration of carbohydrate metabolism	
12 Exploration of lipid metabolism	
13 Exploration of protein metabolism	
14 Practical exam	
Minimal bibliography	
Course support 2024-2025	

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 study of intrinsic structural mechanisms specific to physiology represents the fundamental basis necessary for understanding the knowledge that will be acquired in clinical and specialized disciplines. The analytical program determines the training of true professionals who will treat patients with ever-increasing needs.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Free and interactive presentation in computer projection system (power point)
Laboratory	Practical work carried out by the teacher, practical work carried out by students after following the teacher

Minimum performance standard - The minimum work to be done by the student to the practical work to be admitted to the final check
Developing skills related to laboratory activity: performing biochemical analyses, demonstrating 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.

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	**40 %**
- periodic testing by control papers	**10 %**
- 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:
Practical Individual Exam, Scientific Report, Descriptive Written Work **, 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)
Basic concepts that demonstrate understanding of the subject matter	Thorough mastery of the subject matter

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof.PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Cristescu Cristina Daniela

Laboratory holder,
Assoc. Prof. PhD Cristescu Cristina Daniela

Date of approval in the Department
18.09.2025

„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	**Histology. Cytology**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Necula Laura Georgiana**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Necula Laura Georgiana**					
The discipline code	**DM 1.2.12**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**3**

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

Number of hours per week	**3**	Of which course hours	**1**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**42**	Of which course hours	**14**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**75**		

Distribution of Time	**33 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	5
5. Specific training activity seminar and / or laboratory	3
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	**Histology. Cytology**		
Professional competences specific to the discipline	Knowledge of the principles and methods of histological examination Knowledge of the general architecture of the fundamental classes of tissues (epithelial, connective, muscular, nervous) Knowledge of the main subclasses of tissues, especially the morphological, functional characteristics and the relationships between the various cellular components and elements of the extracellular matrix Differential diagnosis of tissue/organ by examining histological preparations		
Transversal competencies	Teamwork skills, oral and written communication skills, use of information and communication technology, respect for professional ethics, etc.		
The general objective of the discipline	Description and understanding of the architecture of the human body at the level of component tissues. Knowledge of the interdependencies between the various histological components of the human body.		
The specific objective of the discipline	See the curriculum		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the fundamental scientific concepts on which dental medicine is based, regarding the histological structural characteristics of the healthy human body.	The student/graduate analyzes, evaluates, and applies the knowledge acquired in medical studies and general medico-biological sciences to assess the conditions of human tissues and the structures of the dento-maxillary apparatus.	The student/graduate analyzes and interprets physical, chemical, and biochemical methods that allow the implementation and development of complex concepts regarding biological systems, corresponding to the human organism.

The content of the course – Analytical Syllabus	**No. hours**
1 Introduction to histology	14
2 Epithelial tissue	
3 Connective tissue	
4 Ultrastructure of epithelial and connective tissues	
5 Cartilaginous tissue	
6 Bone tissue	
7 Blood	
8 Hematopoietic tissues	
9 Skeletal muscle tissue	
10 Cardiac and smooth muscle tissue	
11 Nervous tissue	
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1 Methods for making histological preparations	42
2 Methods and instruments used in examining histological preparations	
3 Epithelia	

4 Connective tissue
5 Epithelial and connective ultrastructure
6 Cartilaginous tissue
7 Bone tissue
8 Blood
9 Hematopoiesis
10 Muscular tissue
11 Nervous tissue

Minimal bibliography

1. Histology: A Text and Atlas, with correlated cell and molecular biology - Michael Ross and Wojcech Pawlina, Ed. Lippincott Williams & Wilkins, 2015
2. Junqueira's Basic Histology, 14ed, Text and Atlas, Anthony L. Mescher, McGraw-Hill Education, 2016
3. Oral Anatomy, Histology and Embryology, 5th Edition - Barry K.B Berkovitz, G. R. Holland & Bernard J. Moxham, Elsevier Science Publishers, 2017
4. Course support 2024-2025

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	Exposure using the video projector
Laboratory	Exposure, practical activity using specific materials (biological samples, reagents, fixed histological preparations) and specific examination techniques (optical microscopy) as well as access to special methods (cell and tissue cultures)

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

- Theoretical knowledge regarding tissue architecture (epithelial, connective, muscular, nervous), with microscopic and electron microscopic ultrastructural aspects
- Practical skills for making, examining and describing observations on specific preparations

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	**0 %**
- 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 and test)

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
• Attendance during the semester at least N-3 practical sessions • Minimum 60% correct answers in the laboratory colloquiu • Minimum 60% correct answers in the exam+colloquium	• Maximum one absence at practical work • Minimum 90% correct answers at CLP • Preparation and defense of a paper such as a homework/report etc. • Minimum 95% correct answers cumulatively at the exam + control papers + continuous testing

Date of completion

15.09.2025

Director of the Department,
Assoc.Prof. PhD Tudorache Sorin

Course holder,
Assoc. Prof. PhD Necula Laura Georgiana

Laboratory holder,
Assoc. Prof. PhD Necula Laura Georgiana

Date of approval in the Department
18.09.2025

„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	**The morphology of teeth and dental arches**					
Didactic function, name and surname of the course holder	**Assoc. Prof. PhD Hancu Violeta**					
Didactic function, name and surname of the laboratory holder	**Assoc. Prof. PhD Hancu Violeta**					
The discipline code	**DM 1.2.13**	The formative category of the discipline		**SD**		
Academic year	**I**	Semester*	**II**	Type of final evaluation (**E, V, C**)		**E**
The discipline regime (O-obligatory, Op-optional, F-facultative)			**O**	Number of credits		**6**

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

Number of hours per week	**8**	Of which course hours	**2**	seminary / laboratory / clinical internship	**6**
Total hours of the curriculum	**112**	Of which course hours	**28**	seminary / laboratory / clinical internship	**84**
		Total hours per semester	**150**		

Distribution of Time	**38 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	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	8
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	**The morphology of teeth and dental arches**		
Professional competences specific to the discipline	• Acquisition of solid theoretical knowledge regarding the morphology of permanent teeth and dental arches, forming the foundation of all specialized disciplines. • Understanding each individual morphological entity and associating them within a functional morphological complex represented by the dental arch. • Identification and differentiation of each permanent tooth based on individual and group morphological characteristics. • Development of specific skills for future practical activities, enhancing and refining manual dexterity.		
Transversal competencies	• Introduction to dentistry through the presentation of specialized terms and concepts to be utilized throughout the course of study and dental practice. • Professionalism is grounded in continuous, up-to-date learning and mastery of foundational concepts. Tooth morphology serves as the basis for the development of other dental disciplines, such as operative dentistry, endodontics, orthodontics, prosthetic restoration, and oral-maxillofacial surgery. • Understanding the primary and secondary functional morphology of teeth to identify the necessity for conservative, prosthetic, or orthodontic therapies.		
The general objective of the discipline	To acquire knowledge related to the morphology (anatomy) of teeth and dental arches, which serves as the basis for conservative therapy, prosthetic restorations, and diagnosing anomalies of the dento-maxillary apparatus.		
The specific objective of the discipline	• Mastery of detailed dental morphology to identify and differentiate each morphological entity based on individual and group characteristics. • Deepening theoretical knowledge through the reproduction of dental morphological elements by modeling teeth in plaster. • Acquiring basic skills in handling instruments and developing manual dexterity, which is critically important in the profession of dentistry.		
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. The dento-maxillary apparatus: Morphological concepts used in describing tooth crowns and roots. Dental formula and eruption of permanent teeth. Tooth numbering systems.	2

2. Primary functional morphology of permanent anterior teeth: Common morphological characteristics and individual morphological traits of the maxillary central incisor.	2
3. Individual morphological characteristics of teeth: Maxillary lateral incisor and mandibular incisors.	2
4. Individual morphological characteristics of teeth: Maxillary and mandibular canines.	2
5. Differential morphology of permanent anterior teeth.	2
6. Primary functional morphology of permanent posterior teeth: Common morphological characteristics and individual traits of maxillary premolars.	2
7. Individual morphological characteristics of mandibular premolars.	2
8. Individual morphological characteristics of maxillary molars: Maxillary first molar.	2
9. Individual morphological characteristics of the maxillary second molar.	2
10. Individual morphological characteristics of the maxillary third molar.	2
11. Individual morphological characteristics of the mandibular first molar.	2
12. Individual morphological characteristics of the mandibular second molar.	2
13. Individual morphological characteristics of the mandibular third molar.	2
14. Differential morphology of permanent posterior teeth.	2
Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	**No. hours**
1. Presentation of the discipline, practical rooms, and dental laboratories. Introduction to internal regulations and occupational safety rules in the dental laboratory.	4
2. Maxillary central incisor – Plaster sculpting.	20
3. Maxillary canine – Plaster sculpting.	20
4. Maxillary first molar – Plaster sculpting.	20
5. Mandibular first molar – Plaster sculpting.	20

Minimal bibliography

1. Riquieri Hilton – Dental Anatomy and Morphology, Quintessence Publishing 2019
2. Lecture notes 2024-2025

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

1. The future practical activity of the dentist relies not only on theoretical and practical knowledge but also on manual skills, patience, and exceptional conscientiousness, developed through specialized studies initiated in the preclinical discipline of Tooth and Dental Arch Morphology.
2. The discipline provides dentists with the necessary knowledge regarding the context of a functional, normal dentition.

Mode of transmission of information:

Forms of activity	**Teaching methods used**
Course	Interactive programmed teaching; multimedia projection of course materials.
Laboratory	Practical demonstrations performed by dental technicians, presentation of intermediate working phases, and model examples. Students work under the supervision and assistance of academic staff and dental technicians and receive grades for their plaster sculptures**.**

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

- Plaster sculpting of at least 4 maxillary central incisors, 4 maxillary canines, 4 maxillary first molars, and 4 mandibular first molars.
- Basic knowledge of dental morphology.
- No unexcused absences from practical work.
- Ability to reproduce the morphological elements of human permanent teeth through plaster modeling.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**80 %**
- the final answer at the practical exam at laboratory	**10 %**
- periodic testing by control papers	**10 %**
- 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)
Practical Individual Exam, Descriptive Written Work

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 examination and periodic tests. • Making up for all absences from practical work. • Basic knowledge of tooth morphology.	• In-depth knowledge of tooth morphology.

Date of completion
15.09.2025

Director of the Department,
Prof. PhD Comăneanu Raluca Monica

Course holder,
Assoc. Prof. PhD Hancu Violeta

Laboratory holder,
Assoc. Prof. PhD Hancu Violeta

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	**BACHELOR DEGREE**
Study program	**Dental Medicine**

Discipline name	**Romanian II**					
Didactic function, name and surname of the course holder	**-**					
Didactic function, name and surname of the laboratory holder	**Lecturer PhD Buză Iulia Iuliana**					
The discipline code	**DM 1.1.8**	The formative category of the discipline		**CD**		
Academic year	**I**	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	**2**	Of which course hours	**-**	seminary / laboratory / clinical internship	**2**
Total hours of the curriculum	**28**	Of which course hours	**-**	seminary / laboratory / clinical internship	**28**
		Total hours per semester	**50**		

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

13. Tutoriing	0,5h
14. Examinations	1h
15. Other activities	1h

The name of the course	**Romanian I**		
Professional competences specific to the discipline	• Understanding and producing more complex oral and written messages in Romanian (level A2–B1). • Correct use of frequently used grammatical structures in both spoken and written Romanian. • Expanding and using specialized vocabulary related to academic and everyday topics. • Ability to summarize, describe, and narrate personal, social, or academic content in Romanian. • Comprehension of adapted literary and non-literary texts relevant to Romanian culture and society.		
Transversal competencies	• Development of autonomous learning strategies in acquiring a foreign language. • Effective intercultural communication in academic and social environments. • Adaptation to Romanian university life and integration in multicultural contexts. • Use of Romanian language as a tool for knowledge transfer across fields (e.g., medicine, stomatology).		
The general objective of the discipline	To consolidate and further develop students' language competences in Romanian, enabling them to communicate effectively in academic, professional, and everyday situations.		
The specific objective of the discipline	• To strengthen students' ability to read, understand, and interpret medium-length texts in Romanian. • To improve oral fluency and accuracy through structured speaking and interaction activities. • To develop writing skills: from sentence-level structures to coherent paragraphs and short compositions. • To deepen understanding of Romanian grammar and syntax in context. • To encourage active use of Romanian in presentations, discussions, and written assignments.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate describes synchronically and diachronically the main linguistic phenomena and grammatical constructions of English and Romanian and	The student/graduate applies linguistic norms both in the mother tongue and in the studied foreign languages.	The student/graduate uses appropriate expressions and words in the production of oral and written texts.

	analyzes texts in English and Romanian.		

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	No. hours
Review of basic structures: present tense, nouns, adjectives, and simple sentence construction	1h
2 Past tense (*perfect compus*) – formation and use in narration	1h
3 Reflexive verbs in present and past tense	1h
4 Vocabulary for personal experiences: travel, health, education, and hobbies	1h
5 Descriptive texts: people, places, daily life – cohesion and paragraph building	1h
6 Modal verbs and expressions of possibility, obligation, and permission	1h
7 Reading and interpreting a short literary or journalistic text	1h
8 Writing a short narrative (personal experience, past events)	1h
9 Future tense (*viitorul cu "o să" și "voi"*) – structure and contextual use	1h
10 Expressing opinions and preferences. Agreeing/disagreeing in conversation	1h
11 Structured oral presentations on familiar topics	1h
12 Listening comprehension: audio texts, note-taking, summarizing ideas	1h
13 Preparing for the oral and written final exam: practice activities	1h
14 Final revision and feedback on assignments, self-assessment exercises	1h

Minimal bibliography

- **Cristina Valentina, Laura Elena Pascale** – *Limba și literatura română. Manual pentru studenții străini din anul pregătitor*, Editura Universitară
(main textbook used for integrated skills: grammar, vocabulary, reading and writing)
- **Doina Goșa, Rodica Zafiu** – *Gramatica practică a limbii române pentru studenții străini*, Editura Universității din București
(practical grammar explanations and exercises suitable for A2–B1 levels)
- **Iulia Dafinoiu** – *Limba română ca limbă străină. Manual pentru anul pregătitor*, Editura Ovidius University Press
(complementary resource for applied grammar, functional communication, vocabulary development)
- **Mihaela Moroșanu** – *Exerciții de gramatică practică a limbii române ca limbă străină*, Editura Institutul Limbii Române
(excellent for homework, revision and independent study)
- **Ioana Vintilă-Rădulescu (coord.)** – *Gramatica limbii române pentru studenții străini*, Institutul Limbii Române *(comprehensive grammar support, also used for exam preparation)*

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 contents of the *Romanian II* course are aligned with the linguistic and communicative needs identified by representatives of the academic and professional medical community. The course responds to the expectations of professional associations and employers in the healthcare sector by:

- Ensuring that students develop the ability to **understand and use medical terminology** in context (patient interaction, case descriptions, symptoms, procedures).
- Promoting functional communication skills in Romanian, essential for **patient-doctor relationships, interprofessional dialogue**, and healthcare documentation.
- Supporting the integration of foreign students into **clinical practice environments** by enhancing their ability to comprehend and produce written and oral messages clearly and accurately.
- Contributing to the development of intercultural competencies and sensitivity in the medical field, reflecting the standards promoted by **European medical education frameworks** and **Romanian health institutions**.
- Addressing **specific communication scenarios** encountered in Romanian healthcare settings: hospital admission, anamnesis, emergency care, etc.

The course content is periodically reviewed in consultation with **medical faculty members**, **practicing professionals**, and **trainers involved in Romanian language teaching for medical purposes**, ensuring its relevance and effectiveness in preparing students for future academic and clinical training.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Laboratory	- Communicative and task-based learning (dialogues, interviews, role-play, problem-solving tasks) - Interactive grammar practice using authentic and semi-authentic texts - Listening and speaking exercises based on audio/video materials relevant to everyday and academic settings - Vocabulary expansion activities through games, matching, gap-fills, and categorization - Collaborative learning in small groups or pairs to develop fluency and accuracy - Descriptive and narrative writing practice, peer review and guided correction - Use of digital tools and educational platforms (e.g., Wordwall, Kahoot, Google Docs, Quizlet) - Simulation of real-life situations in academic or medical contexts

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

To be admitted to the final assessment, the student must meet the following minimum requirements:

- **Attend at least 75% of the laboratory sessions**, actively participating in class activities.
- **Complete and submit at least 50% of assigned practical work**, such as exercises, short texts, translations, or oral presentations.
- Demonstrate the ability to **understand and produce basic written and oral messages in Romanian**, appropriate for A2–B1 level.
- **Participate in at least one control test or oral evaluation** during the semester.
- Show basic progress in the use of vocabulary, grammar structures, and communication strategies covered during the course.
- Respect academic integrity rules and deadlines for submitting individual work.

Students who do not meet these minimum standards will not be allowed to sit for the final exam.

For the final grade is taken into account	**Total = 100%**
- the answer at the exam / final evaluation	**30 %**
- the final answer at the practical exam at laboratory	**25 %**
- periodic testing by control papers	**15 %**
- continuing testing during the semester	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**15 %**
- other sctivity	**5 %**

Describe the practical ways of final assessment, E:
Practical Individual Exam, Scientific Report, Descriptive Written Work , **E:** Written work (descriptive and test)

The final assessment is designed to evaluate students' communicative, grammatical, and written competences in Romanian at A2–B1 level. It includes both written and oral components, structured as follows:

- **E: Practical Individual Exam**
  An oral exam assessing the student's ability to engage in structured dialogue, respond to questions, describe experiences, express opinions, and demonstrate pronunciation accuracy and fluency.
- **E: Scientific Report / Descriptive Written Work**
  A short written composition or structured report on a familiar or thematic topic (e.g., personal experience, cultural elements, academic routine), evaluating coherence, grammar, vocabulary use, and written expression.
- **E: Written Work (Descriptive and Test Format)**
  A final written exam including:
  - a **descriptive text** (based on a prompt or image);
  - grammar and vocabulary **exercises** (fill-in-the-blanks, matching, short-answer, multiple choice) aligned with course content.

All components are weighted according to the final grade criteria and aim to reflect the student's integrated linguistic performance and practical application of knowledge.

Minimum requirements for 5 grade (Or how to assign 5 grade)	**Minimum requirements for 10 grade** (Or how to assign 10 grade)
To obtain the minimum passing grade (5), the student must fulfil the following conditions: • **Attend at least 75%** of the laboratory/seminar classes. • Demonstrate **basic understanding and use** of Romanian vocabulary and grammar structures appropriate for A2–B1 level. • **Submit at least 50%** of the required assignments (homework, short texts, translations, etc.). • Obtain a **minimum score of 50%** on the final written and oral exams. • Be able to produce a **simple descriptive text** of 8–10 sentences on a familiar topic with acceptable grammar and structure. • Participate in at least one oral activity (dialogue, role-play, or oral response) showing the ability to communicate basic ideas. • Respect academic rules and deadlines and avoid plagiarism or copying. Meeting these standards reflects satisfactory progress in acquiring the necessary linguistic tools for further academic integration.	To obtain the maximum grade (10), the student must: • Attend **at least 90%** of laboratory/seminar sessions and actively participate in all class activities. • Demonstrate **excellent command of vocabulary and grammar** appropriate to A2–B1 level, with minimal or no errors. • Produce **well-structured and coherent written texts** (narrative or descriptive) of at least 150 words, with appropriate connectors and logical flow. • Communicate **fluently and confidently** in Romanian during oral assessments (dialogues, presentations, discussions), with correct pronunciation and spontaneity. • Obtain **90% or above** in both the written and oral final assessments. • Submit **all assigned tasks** (homework, essays, translations, etc.) on time and at a high academic standard. • Show **initiative, creativity, and autonomy** in learning, including the ability to use Romanian in unfamiliar situations. • Engage in **cultural and interdisciplinary activities** using Romanian, when applicable. Achieving these criteria demonstrates advanced mastery of course content and a high level of academic and linguistic engagement.

Date of completion
15.09.2025

Director of the Department,

Course holder,
-

Laboratory holder,
Lecturer PhD Buză Iulia Iuliana

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 I**					
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 1.1.16**	The formative category of the discipline		**CD**		
Academic year	**I**	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	**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	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**		
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. 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) 2. 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 3. Evaluation of the level of training of practitioners of physical education and sports activities		
The general objective of the discipline	Optimization of motor capacity according to the requirements of the professional profile; Knowledge of methods for 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).		
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 motor capacities; Creates individualized programs

		educational and performance strategies.	according to individual and group needs and characteristics.

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	No. hours
1 Communication of requirements and evaluation form. Organization for performing physical exercises individually and in groups of students	28
2 Knowledge and understanding of the concept of Wellness (the condition of being physically and mentally healthy through physical activities). Thematic report.	
3. Historical landmarks of the emergence and evolution of physical exercises and sports. History of Olympism and Olympic education. Thematic report.	
4 Benefits of physical activity in somatic, functional, motor and mental terms. Thematic report.	
5 Development of motor qualities. Notions about the muscular, skeletal, articular system and the biomechanics of physical movement. Thematic report.	
6 Physical exercise and the terminology of physical education and sports. Thematic report.	
7 Peculiarities of physical effort and methods of recovery, relaxation, recreation. Thematic report.	
8 Semester evaluation	

Minimal bibliography

1. Grigoroiu, C., Pricop, A., 2020, Efficiency of the progressive stretching method in developing female students' flexibility 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	**0 %**
- activity like homework / reports / essay / translation / projects etc.	**20 %**
- 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

Date of completion
15.09.2025

Director of the Department,

Course holder,
-

Laboratory holder,
Assist. Prof. PhD Urichianu Bogdan

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 II**					
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 1.2.17**	The formative category of the discipline		**CD**		
Academic year	**I**	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	**1**
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 II**		
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. 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) 2. 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 3. Evaluation of the level of training of practitioners of physical education and sports activities		
The general objective of the discipline	Optimization of motor capacity according to the requirements of the professional profile; Knowledge of methods for 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).		
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	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

		into educational and performance strategies.	according to individual and group needs and characteristics.

Seminary / Laboratory / Clinical Internship content - Analytical Syllabus	No. hours
1 Communication of requirements and evaluation form. Organization for performing physical exercises individually and in groups of students	28
2 Knowledge and understanding of the concept of Wellness (the condition of being physically and mentally healthy through physical activities). Thematic report.	
3. Historical landmarks of the emergence and evolution of physical exercises and sports. History of Olympism and Olympic education. Thematic report.	
4 Benefits of physical activity in somatic, functional, motor and mental terms. Thematic report.	
5 Development of motor qualities. Notions about the muscular, skeletal, articular system and the biomechanics of physical movement. Thematic report.	
6 Physical exercise and the terminology of physical education and sports. Thematic report.	
7 Peculiarities of physical effort and methods of recovery, relaxation, recreation. Thematic report.	
8 Semester evaluation	

Minimal bibliography

1. Grigoroiu, C., Pricop, A., 2020, Efficiency of the progressive stretching method in developing female students' flexibility 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	**0 %**
- activiry like homework / reports / essay / translation / projects etc.	**20 %**
- 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

Date of completion
15.09.2025

Director of the Department,

Course holder,
-

Laboratory holder,
Assist. Prof. PhD Urichianu Bogdan

Date of approval in the Department
18.09.2025

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

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	**History of medicine**					
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 1.1.18**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**I**	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	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	3
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	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	**History of medicine**		
Professional competences specific to the discipline	Recognition and understanding of the main etiological and therapeutic concepts used in the art of healing throughout the evolution of Human History. Prerequisites for acquiring specific professional skills: knowledge of Romanian History and Universal History.		
Transversal competencies	Initiating and developing in the minds and hearts of students a sense of respect and pride for their chosen profession as well as the desire to be trained in the spirit of our admirable predecessors who have constantly acted to increase and defend professional prestige.		
The general objective of the discipline	Chronological presentation of the emergence and development of medicine in parallel with the evolution of human knowledge and highlighting the way in which various etiological and therapeutic concepts have changed over time.		
The specific objective of the discipline	Because the history of medicine fully reflects the structure and configuration of the civilizations in which they enrolled, students have the opportunity to enrich their medical and general culture through knowledge of people, facts, places and philosophical currents from the history of universal and Romanian medicine.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates the essential stages in the evolution of medicine, with emphasis on the development of the medical and dental professions, in the historical, cultural, and scientific context, from the origins to the contemporary period.	The student/graduate analyzes, evaluates, and applies the knowledge acquired to understand the ethical, philosophical, and social foundations of medical practice, establishing connections between historical traditions and the current responsibilities of the dental profession.	The student/graduate critically analyzes and interprets historical contributions relevant to modern medicine, assuming responsibility for forming an integrated professional perspective based on respect for humanistic values, medical tradition, and the dignity of medical practice.

The content of the course – Analytical Syllabus	**No. hours**
1. Introduction – History of medicine, definition, importance, placement in the history of culture and civilization. Prehistoric medicine – empiricism, ethnomedicine, paleopathology.	28
2. The ancient period – Assyro-Babylonian medicine, medicine in ancient Egypt, Indian medicine and traditional Chinese medicine.	
3. The ancient period – cultural and philosophical premises during the Hellenistic civilization. The Hippocratic school and other medical trends of the period. The medical school of Alexandria. Medicine in ancient Rome.	
4. The Middle Ages – religious, political, cultural and philosophical premises. Medicine in the Arab caliphates. Medicine in Byzantium. Medicine in Western Europe. The first faculty of medicine – Salerno. The great epidemics	
5. The Renaissance. The Universities of Bologna and Padua. The development of morphology, the role of the optical microscope. The Enlightenment, the 18th century. The importance of scientific achievements in the fields of physics and chemistry for medicine. The development of physiology. The emergence of hygiene and preventive medicine.	

6. The 19th century. The paramount importance of experimental physiology – Claude Bernard. Biological chemistry – Louis Pasteur. Microbiology – Ignatius Semmelweis, Joseph Lister, Robert Koch. Morphopathology - Rudolf Virchow. The explosive development of medicine in the 20th and 21st centuries. The fundamental role of online databases.
7. The contribution of Romanian doctors to the development of universal medicine. The establishment and evolution of medical education in Romania.
Minimal bibliography
1. Course support 2024-2025

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
Recognizing and understanding the main etiological and therapeutic concepts used in the art of healing throughout the evolution of Human History can lay new foundations for the motivations for choosing and practicing the medical profession, for an easier insertion of graduates into the labor market in Romania and the European Union.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Interactive course: laptop, video projector for presenting concepts. Permanent correlation of concepts with those of universal history. Answers to students' questions.

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: 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 notions of the extracted topic and their correlation with data from universal history.	Correct and comprehensive presentation of the concepts from the extracted topic and answers to all additional questions, according to the subject taught.

Date of completion
15.09.2025

Director of the Department,
Assoc. Prof. PhD Ulmeanu Dan

Course holder,
Lecturer PhD Moțoescu Eduard

Laboratory holder,
-

Date of approval in the Department
18.09.2025

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

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	**Associated risks at drugs consumption**					
Didactic function, name and surname of the course holder	**Lecturer PhD Moțoescu Eduard**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 1.1.19**	The formative category of the discipline		**FD**		
Academic year	**I**	Semester*	**I**	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	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	3
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	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	**Associated risks at drugs consumption**		
Professional competences specific to the discipline	Awareness of the true mechanisms by which the individual becomes addicted to different substances; Understanding the activation of the mechanisms and the "consumer" reflexes that each individual goes through from "use" to "abuse" of substances, from occasional consumption to addiction; Deciphering some personality traits, predisposing psychiatric conditions, environmental factors favoring the initiation and reiteration of the consumption of psychoactive substances; Understanding the effects of medium and long-term consumption of different drugs on the physical and mental health of the individual; Awareness of the devastating impact that drugs have on the mental and physical health of the individual, as well as the social effects of drug use		
Transversal competencies	Acquiring practical guidelines on communicating with patients with addictions and providing psychological and medical support in interventional addiction therapies.		
The general objective of the discipline	Familiarization with the concepts of "psychological addiction", "somatic addiction" and understanding the way in which "addictive behavior" is formed; Deciphering the mechanisms for dismantling addiction and therapeutic modalities.		
The specific objective of the discipline	Mastering the definitions of drug, addiction and withdrawal; Understanding the connection between drug use, brain biochemical changes and behavioral effects; Deciphering the steps of achieving drug addiction.		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate correctly identifies, defines, and describes fundamental concepts regarding the typology of drugs, mechanisms of action, and their biological and psychological effects on the human organism, with emphasis on implications for oral and general health. Recognizes interactions between psychoactive substances and physiological processes relevant to dental practice.	The student/graduate analyzes, evaluates, and integrates knowledge regarding the effects of drug use in the context of assessing the patient's general health status. Applies principles of prevention and medical intervention in recognizing and managing oral complications associated with substance use. Is able to collaborate interdisciplinarily to identify risks and ensure integrated medical care.	The student/graduate demonstrates the ability to critically evaluate the impact of drug use on individual and community health. Acts responsibly in promoting ethical and professional behavior, actively contributing to health education, prevention of substance use, and supporting patients in the rehabilitation process, in compliance with deontological principles and patient autonomy.

The content of the course – Analytical Syllabus	**No. hours**
1 Subject of study. History of drug use in humanity. Basic definitions in addiction: addiction, tolerance, withdrawal	28
2 Methods of classifying drugs. Classification of drugs according to their impact on the functionality of the nervous system	

3 Nervous system depressant drugs (psycholeptics): alcohol, opiates and opioids, analgesics, sedatives, hypnotics, tranquilizers, volatile solvents
4 Neuro-psychic stimulant drugs (psychoanaleptics): subclass of habitual stimulants, subclass of cocaine, subclass of amphetamines, subclass of doping drugs, subclass of other stimulant drugs
5 Hallucinogenic, intensely disruptive neuro-psychic drugs (psychodysleptics): subclass of cannabinoids, subclass of psychedelic drugs, subclass of synthetic and semi-synthetic psychodysleptic drugs, subclass of other psychodysleptic drugs
6 Therapeutic principles in addictions: psychotherapy modalities, specific pharmacological modalities
7 Treatment of acute opioid intoxication, treatment of opioid addiction, Pharmacological treatment of alcohol addiction, treatment of alcohol withdrawal
Minimal bibliography
1. Course support 2024-2025

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	Power Point presentation

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	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**0 %**
- 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)
Minimum 60% correct answers on the exam	Minimum 95% correct answers on the exam

Date of completion
15.09.2025

Director of the Department,
Assoc. Prof. PhD Ulmeanu Dan

Course holder,
Lecturer PhD Moțoescu Eduard

Laboratory holder,
-

Date of approval in the Department
18.09.2025

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

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	**Contraception VS family planning**					
Didactic function, name and surname of the course holder	**Lecturer PhD Cărpuș Ioana Doretty**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 1.2.21**	The formative category of the discipline		**CD**		
Academic year	**I**	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	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	5
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	0
8. Preparation of oral presentations	0
9. Preparation of final exam	1
10. Consultations	0
11. Documentation on the field	0
12. Documentation on the Internet	1

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

The name of the course	**Contraception VS family planning**		
Professional competences specific to the discipline	Knowledge and understanding (knowledge and appropriate use of discipline-specific concepts) ●basic general knowledge necessary for practicing the medical profession ●ability for evaluation and self-evaluation ●basic knowledge necessary for the profession and qualified care		
Transversal competencies	Manifesting a positive and responsible attitude towards the scientific field/cultivating a scientific environment centered on cultural, moral and civic values/optimally and creatively capitalizing on one's own potential in scientific activities/involvement in institutional development and in promoting scientific innovations/engaging in partnership relationships with other individuals-institutions with similar responsibilities/participating in one's own professional development ● interpersonal skills ●ability to work in a specialized or interdisciplinary team ●ability to have an ethical behavior and professional attitude in patient care ●ability to design or participate in a clinical or other study		
The general objective of the discipline	Explanation and interpretation of ideas, projects, processes, as well as the theoretical and practical contents of the discipline ● capacity for analysis and synthesis ● ability to solve problems ● ability to work in a team ● ability to use theoretical and practical knowledge in the interest and benefit of the patient with new nursing methods		
The specific objective of the discipline	Design, management and evaluation of specific practical activities; use of methods, techniques and tools for investigation and application ●the ability to communicate with the patient or his/her family ●the ability to apply a nursing behavior beneficial to the patient ●the ability to apply appropriate therapy ●the ability to communicate interdisciplinary and appropriate specialist consultation ●the ability to make the correct decision until the doctor arrives		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and appropriately differentiates fundamental concepts regarding contraception, reproductive health, and family planning, in the context of protecting individual and community health, with emphasis on correlations between general health and oral health.	The student/graduate analyzes, evaluates, and applies knowledge regarding contraceptive methods and family planning strategies within medical counseling, in order to understand and integrate the social, psychological, and ethical aspects that may influence patient health in dental practice.	The student/graduate analyzes and interprets the medical, social, and ethical context of the use of contraceptive methods and family planning, assuming responsibility for correct and empathetic communication with the patient and for promoting health through a multidisciplinary approach, within the limits of dental competencies.

The content of the course – Analytical Syllabus	No. hours
1 The importance of implementing family planning methods.	1
2 Conception counseling	1
3 Eligibility criteria for family planning methods	1
4 Effects of sex hormones; genital and extragenital	1
5 Synthetic sex hormones	1
6 Hormonal contraception	1
7 Combined oral contraceptives	1
8 Progestin-only contraceptives	1
9 Injectable contraceptives	1
10 Natural contraception. Barrier methods	2
11 Male and female sterilization	1
12 Intrauterine devices (IUDs)	1
13 Emergency contraception. New perspectives in family planning	1
Minimal bibliography	
Course support 2024-2025	

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 theoretical content of the course is constantly updated by consulting specialized journals and the specialized web domain and is consistent with the requirements of European education.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Power Point presentations

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:
Practical Individual Exam, Scientific Report, Descriptive Written Work **, 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)
Basic knowledge	In-depth and detailed knowledge and understanding of the subject matter taught in the course

Date of completion
15.09.2025

Director of the Department,
Assoc. Prof. PhD Ulmeanu Dan

Course holder,
Lecturer PhD Cărpuș Ioana Doretty

Laboratory holder,
-

Date of approval in the Department

18.09.2025

„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	**The management of European projects**					
Didactic function, name and surname of the course holder	**Lecturer PhD Munteanu Ioana**					
Didactic function, name and surname of the laboratory holder	**-**					
The discipline code	**DM 1.2.23**	The formative category of the discipline		**CD**		
Academic year	**I**	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	5
2. Study after textbook, course support	5
3. Study of the indicated minimum bibliography	5
4. Additional documentation in the library	2
5. Specific training activity seminar and / or laboratory	0
6. Achievement homework, reports, essay, translations etc	2
7. Preparation of control papers	0
8. Preparation of oral presentations	0
9. Preparation of final exam	1
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	**The management of European projects**		
Professional competences specific to the discipline	Specific professional skills acquired during the course: Understanding the concepts of project, project management, project life cycle, stakeholders, shareholders, decision, work breakdown structure, critical path analysis, cost, budget, resources, risk, monitoring, evaluation, project logic diagram, SWOT analysis, PERT analysis, SMART, Understanding the role of the project manager in the organizational structure and the time-cost-performance relationship, Knowledge of the processes regarding the analysis of the organization's internal and external environment, cost estimation, project team building, project monitoring and evaluation, Ability to distinguish between activity and action, between efficiency and effectiveness and the ability to support the importance of planning any activity. Specific professional skills acquired during practical work: Ability to use different tools specific to project management: SWOT analysis, PERT analysis, work breakdown structure, Gantt chart, budget, etc. The ability to schedule the resources needed for a project, The ability to view any set of daily activities as a project.		
Transversal competencies	▪ The ability to relate project management to other disciplines in general management, ▪ The ability to work in a team, ▪ The ability to make decisions.		
The general objective of the discipline	Acquiring theoretical knowledge regarding health project management		
The specific objective of the discipline	Ability to analyze and synthesize Ability to organize Ability to understand Ability to evaluate and self-assess Ability to work in a team		
Learning Outcomes	**Knowledge**	**Skills**	**Responsibility and autonomy**
	The student/graduate identifies, defines, describes, and differentiates the fundamental concepts and principles of project management, with applicability in the health field, especially in implementing European projects relevant to dental medicine.	The student/graduate analyzes, evaluates, and applies knowledge regarding the stages, tools, and specific requirements of project management, developing the capacity to draft, implement, and monitor projects with European funding in the medical and educational domains.	The student/graduate analyzes and interprets eligibility, sustainability, and impact criteria for European projects, demonstrating responsibility and autonomy in assuming an active role in multidisciplinary teams and in developing initiatives that contribute to improving oral health services.

The content of the course – Analytical Syllabus	**No. hours**
1 1. Project concept (history, definition, characteristic elements, classification, restrictions)	2
2 Project management	2

3 Project life cycle (stages)	2
4 Basic concepts of project management	2
5 Time management in projects	2
6 Project cost management	1
7 Risk management in projects	1
8 Project resource management	2
Minimal bibliography	
Course support 2024-2025	

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
All topics taught in the course and practical internships are presented in the didactic and scientific materials of the discipline, monographs, guides, courses, which take the latest data from national and international specialized literature, corresponding to the maximum expectations of representatives of the epistemic community, professional associations and representative employers in the health field in the country.

Mode of transmission of information:	
Forms of activity	**Teaching methods used**
Course	Lecture/Presentation of methodological elements, group discussions, group exercises, case studies

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	**10 %**
- activiry like homework / reports / essay / translation / projects etc.	**10 %**
- other sctivity	**0 %**

Describe the practical ways of final assessment, E: Grid test

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 grading scale • At least half of the topics must be correct	• According to the grading scale • At least half of the topics must be correct

Date of completion
15.09.2025

Director of the Department,
Assoc.Prof.PhD Tudorache Sorin

Course holder,
Lecturer PhD Munteanu Ioana

Laboratory holder,
-

Date of approval in the Department
18.09.2025