



MINISTERUL EDUCAȚIEI
ROMÂNIA
UNIVERSITATEA DE MEDICINĂ,
FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Cell and molecular biology
2.2 Course coordinator: Șef I dr Zazgyva Ancuța-Marilena
2.3 Practical activities coordinator(s): Șef I dr Zazgyva Ancuța-Marilena
2.4 Year of study: I 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 4		
- examinations: 4		
- other activities: 8		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular: None
4.2 competency: None

5. Conditions

5.1 for lectures: None
5.2 for practical activities: None

6. Specific competencies acquired

6.1 professional competencies:
- Initiation into microscopic study: optical and electronic microscopes
- Acquiring practical skills for handling microscopes and laboratory equipment
- Deepening theoretical and practical notions regarding the structure and ultrastructure of the cell and themolecular mechanisms underlying life
- Demonstrating the practical importance of cellular and molecular pathology for the understanding of all medical disciplines
- Using the learned concepts in scientific research

6.2 transversal competencies:

- Introduction to the study of morphological sciences
- Appropriation of theoretical and practical notions regarding the microcosmos of the living world
- Development of medical thinking and use of scientific information in order to understand the physiological and pathological processes seen in various diseases
- Creating a paper/report, by identifying the objectives to be achieved, available resources, conditions and stage of work, as well as timing and terms of achievement

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The Department of Cell and Molecular Biology aims to study and understand the structure and ultrastructure of the cell and the molecular mechanisms underlying life, using optical microscopy, in common staining (HE), special staining and electron microscopy

7.2 Specific objectives:

- Learning the basics of cell and molecular biology, with subsequent applications in the study of other morphological sciences
- Understanding mechanisms of action at the cellular and molecular level with applications in medical practice
- Comprehensive and basic techniques in preparation of microscopic specimens
- Microscopic study and recognition of different types of cells and tissues, positive and differential diagnosis of normal cellular structure and its implications in medicine

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to Cell Biology	Oral, multimedia presentation	Introductory course, with notions of history	Acid based disturbance. HIV. Immunodeficiency. Chromosomal disorders	2
2	The cell. Prokaryotes. Eukaryotes. Molecular forms of life. Cellularity of dental and periodontal structures. Dental and periodontal structure and ultrastructure	Oral, multimedia presentation	-	HIV. Encephalopathy. Oral disorders (incl. caries)	2
3	Chemical composition of the living cell. Biochemistry of dental and periodontal structures	Oral, multimedia presentation	-	Inborn errors of metabolism. Disorders of calcium and vitamin D metabolism	2
4	The glycocalyx. The cell membrane. The cytoskeleton. Intercellular connections. The cytoplasmic matrix	Oral, multimedia presentation	-	Rhesus haemolytic disease	2
5	Extracellular matrix. The basement membrane. Implants	Oral, multimedia presentation	-	Immunization. Malabsorption. Cranial nerve disorders	2
6	Transmembrane transport. Transport through membranes. Vesicular transport	Oral, multimedia presentation	-	Inborn errors of metabolism	2
7	TBL The nucleus. Nuclear chromatin. The nucleolus. Characteristics of the DNA molecule. The chromosomes of eukaryotic Cells	Oral, multimedia presentation	-	Disorders of muscle. Oral disorders (incl. Caries)	2
8	Cell cycle. Cell division	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
9	Endoplasmic reticulum. Ribosomes	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2

10	Cell secretion. Golgi apparatus	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
11	Cell digestion. Lysosomes. Peroxisomes. Particularities of the orofacial sphere	Oral, multimedia presentation	-	Disorders of lipid metabolism. Disorders of uric acid metabolism. Parotid swelling	2
12	TBL Mitochondria	Oral, multimedia presentation	-	Electrolyte and water balance	2
13	Cell senescence. Cell death. Aspects of cell and molecular biology in dental pathology	Oral, multimedia presentation	-	Degenerative CNS disease. Disorders of lipid metabolism. Ischemic heart disease. Carcinoma of head and neck	2
14	Review. Molecular biology techniques. Cell Biology: present and future	Oral, multimedia presentation	-	Immunodeficiency. Chromosomal disorders	2

Bibliography

Bibliography

1. „Cell Biology”, Mariana Cornelia Tilinca, University Press, Tirgu Mures, 2009
2. „Molecular Biology of the Cell”, Bruce Alberts, Alexander D. Johnson, Julian Lewis, David Morgan, Martin Raff, Watson D. James, 6th Edition, W. W. Norton & Company, 2014
3. „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
4. „Cell Biology”, Pollard T.D., Earnshaw W.C.: Saunders Elsevier, Philadelphia, 2008
5. The material presented in class

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Microscopy techniques. Light microscopy. Steps for preparing a permanent microscopy slide. Steps for preparing a native specimen for microscopy. Electron microscopy	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Carcinoma of head and neck	2
2	Shapes of the cells from the gums, lip, dental pulp, mandible	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Carcinoma of the cervix. Disorders of muscle. Oral disorders (incl. Caries)	2
3	Chemical composition of the cell. Decalcification methods for the study of soft structures	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inborn errors of metabolism. Disorders of calcium and vitamin D metabolism	2
4	Extensions of the cell surface. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inflammatory bowel disease. Acute renal disease	2
5	Extracellular matrix. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Connective tissue disease	2
6	Shapes of the nuclei. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Lymphoproliferative disorders	2
7	Mid-term evaluation test	-	-	-	2
8	Cell division. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
9	Endoplasmic reticulum. Ribosomes. Examples from the orofacial sphere	Specimen examination in optical microscopy.	-	Chromosomal disorders. Malformations of lip/palate	2

		Practical demonstrations. Multimedia presentation			
10	Golgi apparatus and cell secretion. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Disorders of lipid metabolism	2
11	Lysosomes. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Thyroid disorders. Disorders of pancreas. Disorders of lipid metabolism. Oral disorders (incl. Caries)	2
12	Mitochondria. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inborn errors of metabolism	2
13	Cell senescence. Cell death	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Electrolyte and water balance	2
14	Review: review of all studied specimens, re-testing	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	-	2

Bibliography

Bibliography

1. „Cell Biology Practical Works Guide”, Mariana Cornelia Tilinca, Târgu Mureș, University Press, 2011
2. „Cell Biology”, Pollard T.D., Earnshaw W.C.: Saunders Elsevier, Philadelphia, 2008
3. „Molecular Biology of the Cell”, Bruce Alberts, Alexander D. Johnson, Julian Lewis, David Morgan, Martin Raff, Watson D. James, 6th Edition, W. W. Norton & Company, 2014
4. „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
4. Johnson K.E.: „Histology and cell biology”, Williams & Wilkins, Baltimore, 1991
5. The material presented in class

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Two TBL evaluations during the semester – the evaluation is mandatory and eliminatory – each represents 10% of the final grade	TBL	20
- practical activities	The activity throughout the semester (test and presentations) and practical works attendance	Practical evaluation, examination in optical microscopy	15
Final evaluation			
- theoretical final exam	Theoretical knowledge about the structure and ultrastructure of the cell and the molecular mechanisms of the living world. Multiple choice tests for the assessment of the theoretical notions taught during the semester. The theoretical exam is mandatory and eliminatory	Theoretical examination based on multiple choice tests, during the session	45
- practical final exam	Practical work: Recognition and description of the studied microscopic specimens: organ diagnosis, diagnosis of staining, description of studied structures, differential diagnosis. The practical exam is mandatory and eliminatory	Practical examination (Examination of microscopic specimens)	20

Minimal performance standards:

Minimal performance standards:

- The mid-term evaluation during the semester is compulsory and eliminatory (minimum passing grade is 5);
- recognition of a microscopic specimen: organ/ tissue diagnosis, diagnosis of staining, description of studied

structures, differential diagnosis

- The minimum passing grade for both exams – theoretical and practical – is 5
- To obtain a grade of 5 for the practical exam, it is necessary to recognize and describe the studied microscopic specimens: organ diagnosis, diagnosis of staining, description of studied structures, differential diagnosis

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Zazgyva Ancuța-Marilena	30 minutes after each course or practical activity

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiology			
2.2 Course coordinator: Șef I dr Metz Erzsebet-Julia			
2.3 Practical activities coordinator(s): Asist. univ. dr. Krisztina Kelemen			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 60		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 5		
- examinations: 5		
- other activities: 5		
3.8 Total hours of individual study: 110		
3.9 Total hours: 180		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: Knowledge of basic concepts before the beginning of the lectures: mass, volume, density, force, velocity, acceleration, pressure, friction, yield, frequency, wave, ion, current, ionic current, current intensity, electric field, tension, matter, molecule, solution, mole, concentration, diffusion, osmosis, affinity, pH.
4.2 competency: A. understanding the difference between process and structure B. understanding the difference between the properties and components of a structure, understanding the difference between a process and its parameters C. characterization of substructures and subprocesses (a smaller structure can be part of a larger one, a process can be part of a process line etc.) D. understanding the chronology of processes E. understanding causality and effect

5. Conditions

5.1 for lectures: Lecture hall equipped with blackboard and digital projector
5.2 for practical activities: Rooms equipped with laboratory equipment necessary for „hands on” type laboratory practices

6. Specific competencies acquired

6.1 professional competencies:

Attending the Physiology lectures will allow the students to understand the functions of different organs and organ systems, and the integration of these functions. Besides the acquisition of the knowledge regarding the basic functions their correlation with the clinical practice is required as well, based also on the Pathophysiology and Pharmacology studied after the understanding of normal function. After attending the lectures students should be familiarized with the principles of the most frequently performed functional tests and able to perform simple experiments and interpret their results.

At the end of the lectures students should know the following key concepts and principles:

1. The general structure of the cells, with emphasis on the structure and functions of the cell membrane. Types and mechanisms of transport across the cell membrane.
2. The generation and spread of the electric impulse (resting membrane potential and action potential). The synaptic transmission, the general synaptic organization of the nervous system. The principles of muscle contraction.
3. The cardiovascular function, electrical and mechanical phenomena, heart cycle, principles of hemodynamics and circulation.
4. Physiology of blood: the role of red blood cells, white blood cells, platelets.
5. Physiology of respiration: respiration, ventilation, gas transport, control of respiration.
6. Physiology of the kidneys, filtration, tubular function, dilution and concentration of urine.
7. Gastrointestinal tract: salivary secretion, digestion, principles of nutrition.
8. Organization of the endocrine system, effects and mechanism of action of the main hormones, role of the endocrine system in the maintenance of homeostasis.

6.2 transversal competencies:

Knowledge of the connection between different mechanisms of homeostasis, the influence of the changes of the outer and inner environment, the multidisciplinary approach of the main mechanisms of life.

To work individually and in group to perform functional tests during the implementation of the theoretical knowledge.

Computer usage, continuous learning and self-testing.

To determine the necessity of biological tests, to plan and perform these.

To present the result of their own research in written or oral form in student's scientific events.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Integrated understanding the principles of normal body functions. The effect on the human body of the interaction between the body and its environment.

7.2 Specific objectives:

Knowledge of the physiological functions of the body as a whole and of the different systems and organs (macro-, microscopic and molecular details).

Recognition of problems caused by disturbances of the normal function.

Knowledge of the mechanisms of homeostasis.

Ability of individual learning and documentation.

Elaboration of functional tests and understanding, interpretation of the results.

Development of verbal skills, proper knowledge of terminology.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction, levels of organization of the human body. Inner environment and homeostasis. Cell membrane. Body fluid compartments. Diffusion. Osmosis. Oncotic pressure.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Oedema, joint swelling, loose stools, raised intracranial pressure, electrolyte and water balance.	2
2	Functions of the membrane proteins. Receptors. Types of the receptor-ligand interaction. Intracellular signal	Oral and multimedia presentation.	-	Anemia, Rhesus haemolytic disease, transfusion of blood products, cyanosis,	2

	transduction. Activation-inactivation of proteins. Blood: introduction, hematocrit. Blood proteins. Red blood cells: morphology, number, function. Regulation of the red blood cell number. Hemoglobin. Iron metabolism. Blood types, blood transfusion.	Development of logical diagrams on the blackboard, discussion with students.		hetapomegaly, jaundice, acute liver disease/failure, chronic liver disease, gallbladder disease, breathlessness, malabsorption, tiredness, palpitations, drug reactions	
3	White blood cells: general description, classification. Mechanisms of the immune system. Innate and adaptive immune system. The cells of the immune system and interactions between immune cells. Antigen and antibody. Antibodies: production, structure, roles, types. MHC antigens. CD antigens. Immune tolerance and immune vigilance.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Infectious disease of childhood, myeloproliferative disorders, Rhesus haemolytic disease, pruritus	2
4	Primary and secondary immune response. Effector mechanisms of the immune system: the cytotoxic T cell, the complement system, phagocytosis, killing (enzymatic and oxidative). Macrophage: role, substances produced by the macrophage. Eicosanoids. Mast cell.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Immunisation, allergic disorders, asthma, bullous/vesicular skin eruption, shock	2
5	Histamine and its effects. Inflammation. Hemostasis: introduction, phases. Platelets	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Allergic disorders, asthma, coagulation disease, purpura.	2
6	Coagulation. Modulation of the coagulation cascade. Regulation of hemostasis. Laboratory assessment of hemostasis.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Coagulation disease, purpura, thromboembolic disease.	2
7	Physiology of the cardiovascular system – introduction, functional levels. Systemic and pulmonary circulation. Mechanical activity of the heart. Heart cycle. Heart sounds. Ionic channels and pumps. Membrane potential. Equilibrium potential. Action potential. Role of intracellular calcium ions. Generation and propagation of excitation. Recording of the electrical activity of the heart.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Cardiac conduction/rhythm disorder, cardiac valve disease, cardiorespiratory arrest, palpitations.	2
8	Elastic blood vessels. Pulse. Relationship between the diameter and elasticity of the vessels and the blood flow. Resistive blood vessels. Redistribution of circulation. Blood pressure. Control of the blood pressure. The renin-angiotensin system. Exchange level. Capillaries. Capacitive level. Regulation of the cardiac output. Factors that influence the venous return.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Cerebrovascular disease, peripheral vascular disease, shock, hypertension, varicose veins.	2

9	Renal physiology. Morpho-functional description of the kidneys. Clearance. Primary and final urine. Glomerular filtration and its control. Tubular function. Glucose-type resorption. The diluting and concentrating function of the kidneys. Control mechanisms.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Electrolyte and water balance, drug reactions, Acid base disturbance, acute renal disease/failure, anemia, chronic liver disease, disorders of lipid metabolism, hypertension, oedema, polyuria	2
10	Physiology of respiration. Ventilation. Perfusion. Alveolar gas exchange. Control of respiration.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Breathlessness, dizziness, pleural effusion, pneumothorax, respiratory tract infections.	2
11	Physiology of the nervous system: introduction. Neuron. Interneuronal communication types. Synaptic signaling. Excitatory and inhibitory neurotransmitters. The role of noradrenalin, dopamine, serotonin and acetylcholine in the nervous system.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Terminal care, post-operative care, pre-operative care, cranial nerve disorders, brain tumor.	2
12	Sensory systems. Nociception. Receptors. Peripheral transmission of the nociceptive signal. Spinal processing of the nociceptive signal, cerebral polymodal integration.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Abdominal pain, back pain, pain management, migraine, peripheral nerve disorders.	2
13	Endocrine system: principles. Autocrine, paracrine and endocrine control. The hypothalamo-pituitary system. Anterior and posterior pituitary gland. Adrenal cortex. Calcium and phosphate metabolism	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Psychosexual dysfunction, infertility, pituitary disorders, brain tumor, diabetes mellitus, disorders of calcium and vitamin D metabolism, thyroid disorders, hypoglycaemia, hypogonadism.	2
14	Digestive physiology. Salivary secretion. Mastication. Secretion of gastric juice and its control. Gastrointestinal motility. Emesis and the control of emesis.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Infant feeding, carcinoma of the stomach, carcinoma of the pancreas, gastroenteritis, acute liver disease/failure, gall bladder disease, chronic liver disease, oral disorders, eating disorders, peptic ulcer	2

Bibliography

Metz Júlia, Orbán-Kis Károly, Szilágyi Tibor: Physiology - lecture notes, 2021.

web-page of the Department of Physiology

Optional:

- Linda S. Costanzo: Physiology, Elsevier, 2017

- Berne & Levy Physiology, Elsevier, 2017

- W. Boron: Medical Physiology, Elsevier, 2016

- Guyton AC, Hall JE.: Textbook of Medical Physiology, Elsevier, 2016

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General presentation of the laboratory of physiology. Safety procedures and rules in the physiology laboratory. Standards	Oral presentation	-	not applicable	3

	of professional ethics in experimental laboratory.				
2	Measurement of plasma electrolytes.	Oral presentation + laboratory activity	-	Electrolyte and water balance, loose stools, oedema, vomiting.	3
3	Acid-base balance. The role of acid-base balance in homeostasis.	Oral presentation + laboratory activity	-	Electrolyte and water balance, acid-base disturbance.	3
4	Principles of blood cell count. Counting of red blood cells, leucocytes and eosinophiles	Oral presentation + laboratory activity	-	Anemia, cyanosis.	3
5	Leucogram. Peripheral blood smear.	Oral presentation + laboratory activity	-	Immunisation, asthma, pruritus.	3
6	Counting of thrombocytes. Bleeding and coagulation times.	Oral presentation + laboratory activity	-	Coagulation disease, purpura, thromboembolic disease.	3
7	Blood typing. Hemoglobin	Oral presentation + laboratory activity	-	Jaundice, Rhesus haemolytic disease, transfusion of blood products	3
8	Assessment of the cardiovascular system: pulse, blood pressure	Oral presentation + laboratory activity	-	Drug reactions, chest pain, disorders of lipid metabolism, ischemic heart.	3
9	Assessment of the cardiovascular system. Recording the electrical activity of the heart	Oral presentation + laboratory activity	-	Cardiac conduction/rhythm disorder, cardiorespiratory arrest, palpitations.	3
10	Functional assessment of the respiratory system.	Oral presentation + laboratory activity	-	Breathlessness, dizziness, stridor, pleural effusion, pneumothorax, respiratory tract infection.	3
11	Functional assessment of the nervous system: reflexes, reaction time	Oral presentation + laboratory activity	-	Peripheral nerve disorders	3
12	Functional assessment of the endocrine system	Oral presentation + laboratory activity	-	Psychosexual dysfunction, infertility, pituitary disorders, brain tumor.	3
13	Assesment of the visual system. Assessment of the auditory system	Oral presentation + laboratory activity	-	Visual impairment, visual loss, hearing loss	3
14	Formative evaluation: evaluation of knowledge obtained at the laboratory practices	-	-	not applicable	3
Bibliography web-page of the Department of Physiology					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- the integration of molecular/cellular functions in organism-level functions;
- the normal function is on the base of pathological clinical conditions;
- performing experiments;
- interpretation of clinical tests.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Assessment of knowledge acquired during the semester	Written/MCQ/oral exam	30
Final evaluation			
- theoretical final exam	Assessment of theoretical knowledge gained during the semester	Summative assessment – Written/MCQ test	70
- practical final exam	-	-	0

Minimal performance standards:

Students are required to attend laboratory practices according to the schedule of groups and rooms. Students should have a proper theoretical background. Students should perform certain practical activities and will be evaluated during the labs. If the student fails to fulfill the requirements, the lab should be repeated.

Students are allowed to attend further examinations only if they have no missed laboratory practices (regardless if the student was not present or validation of the laboratory practice was denied).

Students who failed to fulfill their obligations during the year have to repeat all the laboratory practices during the next academic year. The missed laboratory practices (regardless the cause: absence or not validated) can be recovered during the cycle of the laboratory practices (according to the schedule) or during the recuperations scheduled at the end of the module, but not more than one laboratory practice per day, depending on the existence of vacant seats in the room and with the permission of the teacher. According to The Rulebook of Didactic and Professional Activity of Students in Bachelor's and Master's Programs, the existence of a motivation form the Dean's Office means only that the student can recuperate without paying a fee.

Students are required to perform the given practical exercises and to keep a record of them. At the end of each laboratory practice, the assistant lecturer will certify with his/her signature the lab's validity.

Evaluation of knowledge obtained at the laboratory practices will be done by a formative assessment at the end of the semester (compulsory in the last week of the semester). This formative evaluation is part of the evaluation of the student's activity throughout the year: If the grade obtained at this evaluation is below 5.00, the physiology exam is automatically considered failed. If the formative assessment at the end of the semester is failed, it can be repeated in the reexamination sessions. Students who were absent for medical reasons (they must present proof), can recuperate the formative assessment at the end of the semester during the first, ordinary, session. The grade from the formative evaluation during the last week of the semester accounts for 30% of the final grade.

The final summative evaluation is a written test. At the final summative evaluation, only those students can participate who attended the formative assessment at the end of the semester. Students who were absent at the formative evaluation at the end of the semester are not allowed to participate at the final summative evaluation, as they did not complete their professional obligations.

At the summative evaluation, the entire curriculum is considered for integrative questions. The time for testing and the number of questions and answers may vary according to the number of lecture hours of the specialization. To pass the final summative evaluation, at least 50% of the maximum score of the test should be obtained. The final summative evaluation accounts for 70% of the final grade.

The mean value calculated from all the grades must be ≥ 5.00 ; otherwise the exam is considered failed.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Metz Erzsebet-Julia	Thursday 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anatomy and embriology			
2.2 Course coordinator: Conf dr Mureșan Mircea-Gabriel			
2.3 Practical activities coordinator(s): Conf.Dr.Mircea Muresan			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 35		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 5		
- other activities: 0		
3.8 Total hours of individual study: 55		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: basic knowledge in biology, a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion pictures
5.2 for practical activities: Anatomical specimens, human corpse

6. Specific competencies acquired

6.1 professional competencies: Describing and interpreting fundamental notions of the morphology and functioning of the dentomaxillary apparatus, integration of these in concepts/situations meant to apply solutions with the aim of formulating hypotheses and to correctly interpret signs, symptoms and paraclinical modifications for building a morphological and a clinical diagnosis, developing of novel professional competences in the general and the specific dentistry healthcare.

6.2 transversal competencies:

Acquiring skills and techniques which enable identification of objectives to be fulfilled, of resources available, of the conditions to match, of the work phases, of the deadlines and afferent risks according to a minimal standard: implementation of projects under coordination for solving certain problems specific of the field

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The student becomes acquainted with the principles of organization, development and functions of the dentomaxillary apparatus generally, and with the specific human aspects particularly. He becomes able to observe and to anticipate the topographic relations between the components of the human dentomaxillary apparatus and to interpret them in a functional context. The student will gain practical and detailed knowledge about the development of the dentomaxillary apparatus and the oral cavity, parts of the body that yet are to be studied which represent the area of their medical activity. The student will comprehend the interrelations between the various components and will be able to make distinction their variations falling within the normal limits versus the pathological phenomena and will also acquire the ability to communicate about this the observations and share his experience with others.

7.2 Specific objectives:

Learning the functional anatomy of the dentomaxillary apparatus, its components, the phylogenesis and ontogenesis of the face and of the neck, of the regional anatomy, radiologic anatomy, anthropometry and biochronology. From a functional point of view, emphasis is set on the biomechanics of the motions in the TMJ, of the mastication and of the deglutition. The student will be able for a theoretical and a practical orientation in the oral cavity, especially in the entourage of the dentomaxillary arches. He will develop a vision about the shape and content of the oral cavity with a clear notion of the normal within, both morphologically and functionally, which in turn will serve as a reference when the task will be the restoration of normal relations through his therapeutical activity. The student will also develop an appropriate and detailed vocabulary used in all of the branches of the science he has chosen. The acquired knowledge will serve as a basis for the further studies and the specific sciences in dentistry.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to the study of the anatomy. General osteology.	Oral presentation, Powerpoint presentation, Video materials	-	Osteoarthritis. Osteomyelitis. Osteoporosis	2
2	The articulated skeleton (vertebral column, osteothorax, pelvis)	Oral presentation, Powerpoint presentation, Video materials	-	Vertebral pathology Thoraco abdominal trauma	2
3	General arthrology and myology. Biomechanics of joints and muscles	Oral presentation, Powerpoint presentation, Video materials	-	Movement disorders, joint pain, joint swelling	2
4	Upper and lower limb muscles	Oral presentation, Powerpoint presentation, Video materials	-	Oral presentation, Powerpoint presentation, Video materials	2
5	Blood supply of the superior limb. Brachial plexus	Oral presentation, Powerpoint presentation, Video materials	-	Peripheral vascular disorders	2
6	Blood supply of the inferior limb. Lumbosacral plexus	Oral presentation, Powerpoint presentation, Video materials	-	Peripheral vascular disorders	2

7	Application of the knowledge on clinical cases	TBL	-	-	2
8	A topographic synthesis of the walls of the cavities of the torso A topographic synthesis of the walls of the cavities of the torso. The zones of lesser resistance.	Oral presentation, Powerpoint presentation, Video materials	-	Muscular disorders. Herniae	2
9	Anatomy of the mediastinum. Functional anatomy of the lungs Functional anatomy of the heart.	Oral presentation, Powerpoint presentation, Video materials	-	Pleuraesia Pneumothorax Thoracoabdominal trauma	2
10	Anatomy of the abdominal cavities. Peritoneum and the peritoneal formations.	Oral presentation, Powerpoint presentation, Video materials	-	Peritonitis Appendicitis Feeding disorders	2
11	Blood supply of the abdominal organs Functional anatomy of the liver. System of the port hepatic vein. Vascularization and innervation of retroperitoneum.	Oral presentation, Powerpoint presentation, Video materials	-	Hepatomegalia, Coagulopathies, Chronic hepatic disorders, Hepatic encephalopathies, Gall bladder disorders, Acute hepatic disorders	2
12	Functional anatomy of the urogenital organs	Oral presentation, Powerpoint presentation, Video materials	-	Chronic renal disorders Pathology of the prostate Urinary incontinence	2
13	A topographic synthesis of the of the pelvis and perineum in male and in female	Oral presentation, Powerpoint presentation, Video materials	-	Anorectal pain	2
14	Application of the knowledge on clinical cases	TBL	-	-	2

Bibliography

1. Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy. ISBN: 978-0-443-06952-9.
2. Romanes: Cunningham's Practical Anatomy vol I.-I.-III.

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The bones of the torso. The bones of the facial skeleton, the maxilla, the mandible, the hyoid bone. Frontal, parietal and ethmoid bones. Temporal and occipital bones.	Demonstrations on preparats human corpse	-	-	3
2	The bony nasal cavity, the bony orbit, the pterygopalatine fossa. The infratemporal fossa, the temporal fossa and the bony palate. The internal and external skull base	Demonstrations on preparats human corpse	-	-	3
3	The bones of the superior limb. Muscles of the superior limb.	Demonstrations on preparats human corpse	-	-	3
4	Vessels of the superior limb. Regions of the shoulder girdle. Nerves of the super limb. Regions of the arm of the elbow and of the forearm. Regions of the forearm, of the wrist, of the hand	Demonstrations on preparats human corpse	-	-	3
5	The bones of the inferior limb. Muscles of the inferior limb.	Demonstrations on preparats human corpse	-	-	3
6	Vessels of the inferior limb. Regions of the pelvic girdle. Nerves of the inferior limb. Regions of the thigh, knee and calf.	Demonstrations on preparats human corpse	-	-	3
7	Osteology seminar	Demonstrations on preparats human corpse	-	-	3

8	Muscles and regions of the trunk. Intercostal spaces. Descriptive anatomy of the lungs and pleurae.	Demonstrations on preparats human corpse	-	-	3
9	External configuration of the heart, its cavities, the great vessels. Topography of the mediastinum. Pericardium and the diaphragmatic region.	Demonstrations on preparats human corpse	-	-	3
10	Anatomy of the stomach, of the liver and of the pancreas. The hepatic compartment.	Demonstrations on preparats human corpse	-	-	3
11	The compartment of the stomach. Descriptive anatomy of the intestines. The inframezocolic compartment.	Demonstrations on preparats human corpse	-	-	3
12	Descriptive anatomy of the kidneys and urinary ways.	Demonstrations on preparats human corpse	-	-	3
13	Anatomy of the retroperitoneum	Demonstrations on preparats human corpse	-	-	3
14	Application of the knowledge on clinical cases	Demonstrations on preparats human corpse	-	-	3
Bibliography 1. Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy. ISBN: 978-0-443-06952-9. 2. Romanes: Cunningham's Practical Anatomy vol I.-II.-III.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Practical value of the classes, not merely of the practical for gaining skills and competence for qualification.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	MCQ TEST	10
- practical activities	Seminar of osteology	Oral examination	20
Final evaluation			
- theoretical final exam	Paper based exam	MCQ TEST	40
- practical final exam	Paper based exam	Identifying structures on pictures	30
Minimal performance standards: Student is supposed to know the interrelations between the systems and subsystems of the body, to make a distinction between variations within the limits of normal and to discern the pathological. He is also due to communicate about these with others. The student develops a correct vision about the shape and content of the living body, the functional normality which is to re-establish by his therapeutic attitude. The student also builds up a vocabulary that will be used in his further day-by day work			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Mureșan Mircea-Gabriel	Vineri 14.00-16.00

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical communication. Behavioural sciences. Medical sociology			
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin			
2.3 Practical activities coordinator(s):			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 3		
- examinations: 3		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical deontology. Bioethics			
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 6		
- examinations: 6		
- other activities: 6		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biophysics			
2.2 Course coordinator: Șef I dr Moldovan Mircea			
2.3 Practical activities coordinator(s):			
2.2 Course coordinator: Șef I dr Szakács Juliánna			
2.3 Practical activities coordinator(s): Șef I dr Szakács Juliánna			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 2		
- examinations: 5		
- other activities: 3		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
not applicable
5.2 for practical activities:
Knowledge of the topic of the practical works, the principle and work method of each experiment. Preparation of report before the given deadline.

6. Specific competencies acquired

6.1 professional competencies:
Knowledge and understanding of basic concepts, theories and methods of the topic and the field of study, proper usage of them in professional communication. Description of basic methodology of scientific research. Description of basic concepts, theories which influence the health condition of a definite community.

6.2 transversal competencies:

Identification of roles and responsibilities in a pluridisciplinary team and application of relationship and efficient work techniques. Execution of a work / project effectuation specific tasks in a pluridisciplinary team.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Identification and explanation of physical phenomena of biological system's function, explanation of functional principles of medical apparatus.

7.2 Specific objectives:

Usage of some practical methods and physical tools of medical investigation. To measure, describe and explain physical phenomena in biological systems at the atomic to large molecular structure level. To explain the operating principles of medical devices (for best operating and safe use of the equipment).

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. A short introduction to Biophysics. Biophysics in general context of the biological sciences. The subject and methods of Biophysics. The origin and development of Biophysics. Achievements and perspectives in Biophysics.	oral presentation powerpoint presentation blackboard drawings	-	Diagnosis at the cellular/molecular/quantum level	2
2	2. Basic concepts of biological thermodynamics. Biological thermodynamics concepts. First principle of thermodynamics. Thermodynamics state functions. The biological applicability of the first law of thermodynamics. Second principle of thermodynamics. The biological applicability of the second law of thermodynamics. Free energy fluxes in biological systems.	oral presentation powerpoint presentation blackboard drawings	-	Disorders of Metabolism, Malnutrition, Inborn errors of metabolism, Eating disorders	2
3	3. Water in the biological systems. Structure of the Water Molecule. Physical Properties of Water. The Heavy Water. Models of Liquid Water Structure and Transformations in Presence of Solutes. Water in Living Organisms.	oral presentation powerpoint presentation blackboard drawings	-	Hypothermia, Acid based disturbance	2
4	4. Biomembranes. Models: The lipid amphiphilic bilayer model. The Danielli-Dawson-Robertson model. Models based on sub-units. The fluid mosaic model. Biomembranes components structuring: arrangement of lipids, proteins and carbohydrates	oral presentation powerpoint presentation blackboard drawings	-	Disorders of lipid metabolism, Electrolyte and water balance	2
5	5. General Considerations of Permeability and Transport through Membranes. Passive transport: Simple diffusion, Osmosis, Facilitated diffusion Active transport: Primary active transport, Secondary active transport, Transport by membrane	oral presentation powerpoint presentation blackboard drawings	-	Disorders of lipid metabolism, Electrolyte and water balance	2

	vesicles. Research on the transmembrane transport.				
6	6. Membrane Potentials. The Resting Potential. The Action Potential	oral presentation powerpoint presentation blackboard drawings	-	Spinal disorders, EKG, EEG, EMG, ERG	2
7	7. Biophysics of Respiration. Basically laws involved in the process of respiration.	oral presentation powerpoint presentation blackboard drawings	-	Respiratory tract infection, Pneumothorax, Cardiorespiratory arrest	2
8	8. Biophysics of Blood Circulation. Haemodynamics. Biophysics of Cardiac Contractions. The Elasticity of Large Blood Vessels and of Heart . The Pulse.	oral presentation powerpoint presentation blackboard drawings	-	Cardiac conduction/rhythm disorder, Cardiac valve disease, Hypertension, Ischemic heart disease, Malformations of cardiovascular system, Pericardial disease, Peripheral vascular disease	2
9	9. Muscle Contraction. Chemo-Mechanical Conversion of Energy. Muscular Mechanics and Energetic. Striated Muscle Structure. Muscle Shortening Mechanism.	oral presentation powerpoint presentation blackboard drawings	-	Movement disorders, Disorders of muscle, Inflammatory arthritis	2
10	10. Biophysics of the Vision System. The eye as an optical system. Mechanisms of photoreception. Spectral sensibility of the eye. Visual acuity. Chromatic view. Eye defects and their correction.	oral presentation powerpoint presentation blackboard drawings	Test 1	Vision defects	2
11	11. Biophysics of the Hearing System. The auditory receptor's structure. The electric potential of the internal ear. The genesis of the nervous impulse in the auditory recipient. Information's transmission to the nervous centres.	oral presentation powerpoint presentation blackboard drawings	-	Otitis media	2
12	12. Nuclear Radiations. Sources of nuclear radiations. Characteristic physical quantities of radioactive sources. The interaction of the radiations with the substance. The biological action of radiations. The radiosensitivity of cells and tissues. Biological effectivity. The measurement of biological effects. Irradiation sources of the body. The principles of the present norms of radioprotection.	oral presentation powerpoint presentation blackboard drawings	-	Radiology and radiotherapy	2
13	13. Biological action of non-ionizing radiation. Bunsen's Law. Grotthus' Law. The biological effects of the ultraviolet radiation. The biological effects of the radiations from the visible spectrum. The biological effects of the infrared radiation. The biological effects of the microwaves	oral presentation powerpoint presentation blackboard drawings	Test 2	Radiology and radiotherapy	2
14	14. Imagistic Methods. Röntgen Computerized Tomography. Nuclear Magnetic Resonance.	oral presentation powerpoint	-	Radiology and radiotherapy	2

		presentation blackboard drawings			
Bibliography Bibliografie obligatorie: 1. Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllösi, Medicina, Budapest, 2019, ISBN: 978-963-226-127-0) 2. Medical biophysics practices Bibliografie suport: 1. Moldovan Mircea, Nicolaescu Ioan, Biophysics Laboratory Notebook and Laboratory Reports, University Press, Târgu Mureș, 2009 2. Nicolaescu Ioan, Moldovan Mircea, Biophysics, University Press, Târgu Mureș, 2010					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. Physical quantities. Measurements of physical quantities. Units. Types of errors. Data processing.	oral instruction practical demonstration	-	does not correlate	2
2	2. Determining the solids density by the help of a pycnometer	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
3	3. Determining the liquids density by the help of a pycnometer	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
4	4. The Höppler and Ostwald viscosity instrument	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
5	5. Measuring electrical resistances. Measuring the electromotive force	oral instruction practical demonstration	-	Disorders of lipid metabolism, Electrolyte and water balance	2
6	6. Determining the angular magnification of a microscope. Determining the index of refraction	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
7	7. Determining the focal distance of a thin lens	oral instruction practical demonstration	-	Vision defects	2
8	8. Determining concentrations of solutions through the polarimetric method.	oral instruction practical demonstration	-	Diabetes mellitus	2
9	9. Determining the solution concentration through the refraction method	oral instruction practical demonstration	-	Nephrosis	2
10	10. Determining concentrations of solutions through spectrophotometric method. Plotting the absorption spectrum.	oral instruction practical demonstration	-	Electrolyte imbalance	2
11	11. Determining the enthalpy variation in the dissolving process	oral instruction practical demonstration	-	Metabolic disorders, Malnutrition, Inborn errors of metabolism, Eating disorders	2
12	12. Determining the specific heat of a solid body	oral instruction practical demonstration	-	Metabolic disorders, Malnutrition, Inborn errors of metabolism, Eating disorders	2
13	13. Determining the activity of a gamma source. Plotting the Curve of Statistical Distribution of the Counting Speed.	oral instruction practical demonstration	-	Radiology and radiotherapy, Bereavement	2
14	14. Examination of practical work.	Individual work	-	not applicable	2

Bibliography Bibliografie obligatorie: 1. Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllösi, Medicina, Budapest, 2019, ISBN:					

978-963-226-127-0)

2. Medical biophysics practices

Bibliografie suport:

1. Moldovan Mircea, Nicolaescu Ioan, Biophysics Laboratory Notebook and Laboratory Reports, University Press, Târgu Mureș, 2009

2. Nicolaescu Ioan, Moldovan Mircea, Biophysics, University Press, Târgu Mureș, 2010

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By acquisition of our discipline's content, the student accumulates the basic knowledge needed to understand courses of speciality, like: physiology, biochemistry, cell biology.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Understanding and integration of all theoretical concepts Knowing of bibliographical references	10% 1st Test (Test1) and 10% 2nd Test (Test2)	20
- practical activities	Correlation between theoretical and practical notions Capacity of performing practical work	-validation of the practical activities during the semester -practical examination	10
Final evaluation			
- theoretical final exam	Understanding and integration of all theoretical concepts Knowing of bibliographical references	written examination	50
- practical final exam	Correlation between theoretical and practical notions Capacity of performing practical work	-validation of the practical activities during the semester -practical examination	20
Minimal performance standards: Minimal performance standards: The minimum passing grade for theoretical exam and practical exam is 5 (five). FG-final grade weight of the grades: 10% 1st test (Test1) 10% 2nd test (Test2) 10% lab activity (LA) 20% lab exam (LE) 50% theoretical exam (TE) $FG = 0,1 \cdot \text{Test1} + 0,1 \cdot \text{Test2} + 0,1 \cdot \text{LA} + 0,20 \cdot \text{LE} + 0,5 \cdot \text{TE}$			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Moldovan Mircea	
Șef I dr Szakács Juliánna	30 de minute după fiecare curs / activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biochemistry			
2.2 Course coordinator: Prof dr Tero-Vescan Amelia			
2.3 Practical activities coordinator(s): Conf Dr Nemes Nagy Eniko, Asist Drd Madalina But			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 5		
- examinations: 5		
- other activities: 8		
3.8 Total hours of individual study: 83		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Correlation of the diseases with biochemical processes at molecular level involved in imbalances which can affect the state of health of dental tissues. Conservative treatment behaviour of dental and periodontal structures according to biochemical aspects which can influence of above mentioned structures. Diagnosis and therapy of dento-maxillary anomalies taking into consideration any enzyme and vitamin deficiency involved in the development of dento-maxillary area. Prosthetic restoration of dental arches using the most suitable dental materials in correlation with the biochemical peculiarities of each patient.

6.2 transversal competencies:

identification of objectives achieved, resources available, conditions for their completion, phases of work, working time, periods of achievement and risk factors.

Identification of roles and responsibilities in a multidisciplinary team in which biochemical metabolism-related knowledge may provide crucial information on the treatment and techniques applied and application of bonding techniques and efficient work within the team and in conjunction with the patient.

Efficient usage of informational sources and resources for communication and assisted training.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The aim of the discipline is the formation of a general professional view of medical students. Our aim is presenting the main metabolic pathways taking place in the living cells, with remarks referring to the metabolism of dental and periodontal tissues. Another objective of this course is a general presentation of bacterial metabolism related to tooth decay

7.2 Specific objectives:

Assimilating knowledge regarding the particularities of biochemical metabolism at the level of the oral cavity.

Knowledge of the degradation processes during the formation of dental caries and periodontal diseases

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Amino acids: classification, physical and chemical properties. Peptides with biological importance. Proteins: structure and biological role	oral presentation	-	-	2
2	Lipoproteins. Glycoproteins. Chromoproteins: myoglobin and hemoglobin - structure, biological role, transport of oxygen, CO and CO ₂ . Nucleoproteins, nucleosides and nucleotides. Structure of nucleic acids. Macroergic nucleotides	oral presentation	-	-	2
3	Enzymes (I): structure, classification, nomenclature, specificity, active centers. Models of ES complex formation.	oral presentation	-	-	2
4	Enzymes (II): enzyme kinetics, enzyme activators and inhibitors. regulation of enzyme activity. The localization of enzymes and their origin in plasma	oral presentation	-	-	2
5	Water-soluble vitamins: thiamin, riboflavin, niacin, pyridoxine, biotin, pantothenic acid, folic acid, cobalamin, ascorbic acid - biological role and deficiency	oral presentation	-	-	2
6	Fat-soluble vitamins: carotenes and retinoids, vitamins D, tocotrienols, vitamins K - biological role and deficiency	oral presentation	-	-	2
7	Metabolic processes: general ways of metabolizing organic compounds in the body. central pathways of metabolism: Krebs cycle - mechanism, energy balance, anaplerotic reactions, amphibolic character. The respiratory chain and oxidative phosphorylation	oral presentation	-	-	2

Bibliography

David L Nelson, Michael M Cox - Lehninger Principles of Biochemistry, 8th Edition, 2021

Jeremy M. Berg, Lubert Stryer, John Tymoczko, Gregory Gatto - Biochemistry 9th Edition, 2019

Thomas M. Devlin - Textbook of Biochemistry with Clinical Correlations, 7th Edition, 2015

Tero-Vescan A, Ōsz BE, Imre S – Principii de Biochimie Medicală, Ed University Press Tîrgu Mureş, 2018

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Biochemical analysis. Biological materials used in the biochemistry laboratory. Techniques for plasma protein precipitation and supernatant collection.	individual practical activity	-	-	2

		or in a group of 2 people			
2	The concept of pH. Colorimetric and potentiometric determination of pH. Buffer capacity	individual practical activity or in a group of 2 people	-	-	2
3	Preparation of percentage, molar, normal solutions. Preparation of a 0.1N HCl solution, determination of the factor. Errors of volumetric determinations. titration of a NaOH solution with HCl solutions. preparation of a solution of NaCl 2g% and physiological serum	individual practical activity or in a group of 2 people	-	-	2
4	Color reactions of amino acids and proteins (biuret reaction, ninhydrin, xanthoprotein reaction, identification of amino acids with sulfur, Pauli reaction). Protein precipitation reactions	individual practical activity or in a group of 2 people	-	-	2
5	Determination of the concentration of amino acids in the serum by the Sorensen method	individual practical activity or in a group of 2 people	-	-	2
6	Spectrophotometry. Determination of proteins by the biuret method	individual practical activity or in a group of 2 people	-	-	2
7	The chemical composition of teeth. Mineralization of teeth	individual practical activity or in a group of 2 people	-	-	2
8	Determination of calcium by the photometric method. Determination of magnesium in serum by the Mann-Yoe method	individual practical activity or in a group of 2 people	-	-	2
9	determination of serum phosphate by the Briggs method. Determination of fluorine by the potentiometric method	individual practical activity or in a group of 2 people	-	-	2
10	Determination of direct and total bilirubin in the serum	individual practical activity or in a group of 2 people	-	-	2
11	Determination of blood glucose by the enzymatic method. Using the glucometer	individual practical activity or in a group of 2 people	-	-	2
12	Determination of serum iron. Determination of hemoglobin as oxyhemoglobin	individual practical activity or in a group of 2 people	-	-	2
13	Pathological urine analysis. Rapid laboratory tests	individual practical activity or in a group of 2 people	-	-	2
14	Blood vitamin C determination	individual practical activity or in a group of 2 people	-	-	2
Bibliography Oșan A, Nagy E, Tero-Vescan A - Biochimie practică, Ed University Press Tîrgu Mureș, 2008					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Knowledge of biochemistry is necessary for understanding at molecular level the processes that occur in the dental tissues.

Metabolic pathways involved in the process of caries formation and inflammatory processes that occur in periodontal tissues must be known.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL evaluation	MCQ	10
- practical activities	quizzes or lab reports	MCQ or lab report	20
Final evaluation			
- theoretical final exam	Theoretic exam	MCQ	70
- practical final exam	-	-	0
Minimal performance standards: General knowledge of the main metabolic pathways. The role of vitamins in the body. Biochemical aspects of the dental caries formation process			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tero-Vescan Amelia	Luni 12-14 Marti 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physical education			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Steff Zakarias, Șef I dr Țurcanu Dana-Simona, Asist Varodi Ionuț			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 0	3.3 practical activities: 4
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: good health - harmonious physical development - adequate physical qualities
4.2 competency: Knowledge of techniques learned in high school to develop body strength and physical qualities. - practice of sports (competitive/leisure)

5. Conditions

5.1 for lectures: -
5.2 for practical activities: Sport gym, fitness gym, tennis courts, outdoor, swimming pool, football court

6. Specific competencies acquired

6.1 professional competencies: - Making use of the information, methods and means specific to physical education and sports in order to optimize health and harmonious physical development - Building the skill of knowledge transmission referring to exercises to develop basic physical skills, qualities and muscle usage - Application of specific methods to develop physical qualities
6.2 transversal competencies: - Application of rule systems specific to the organization and practice of physical education and sports, as well as

acquisition and application of adequate behavior in interpersonal relations and in groups

- Using body language to express and understand ideas, feelings, general and physical aesthetics of the body
- Using electronic means to select information regarding elements that are characteristic to physical development
- Active integration into various groups

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Systemic and organized practice of physical exercise and favored sports

7.2 Specific objectives:

- 1) Continuous improvement of healthy condition, physical and mental vigour and harmonious body development ;
- 2) Raising of the general motricity level and aquirement of basical sport skills;
- 3) Participating at interuniversity's competitions

8.1 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory lesson ; the requirements of a Physical Education class	explication, demonstration, repetition	-	-	2
2	Athletics – the school of running	explication, demonstration, repetition	-	-	2
3	Basketball – checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
4	Volleyball - checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
5	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
6	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
7	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
8	Athletics – developing leg strength with different jumping exercises	explication, demonstration, repetition	-	-	2
9	Basketball - repeat the dribbling, ball catching and passing	explication, demonstration, repetition	-	-	2
10	Swimming – teaching the basic elements	explication, demonstration, repetition	-	-	2
11	Aquagym	explication, demonstration, repetition	-	-	2
12	The testing contain two tests which targets the physically skills, as long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swimm 25m pool length in one of the 4 main events of swimming	activity evaluation	-	-	2
13	Testing the students who where absent at the tests	activity evaluation	-	-	2
14	End of school year, conclusion of the school report; recommendations for the sporting activity during the	conclusion	-	-	2

holidays.				
Bibliography 1. Badau D., Tanase T. → Volei, teorie si metodica, Ed. OMNIA, Brasov, 2006 2. Carstea G. → Teoria si metodica educatiei fizice, Ed. AnDa, Bucuresti, 2000 3. Hantiu I. → Teoria educatiei fizice si sportului, note de curs, Univ. Oradea, 2012 4. Macovei S. → Stretching, Ed AFIS, Bucuresti, 2012 5. Neagu N → Teoria si practica activitati motrice umane, Ed. University Press, Tg. Mures, 2010 6. Filipescu, D., Gherghișan, D., Bologa, M., → Educație fizică în învățământul superior medical, Editura UMF, 2001 7. Badau D. → Metodica disciplinei sportive → handbal, Ed. Universitatii Transilvania din Brasov, 2009 8. Badau A, Ungur R, Badau D. – Activitatile fizice acvatice indoor, Ed, Universitatii Transilvania Brasov, 2016				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Development of the capacity to choose healthy life-style, by practicing sports, combining physical exercise with intellectual efforts, motion and rest, work and leisure.
- Availability to practice physical exercise independently
- Constant interest in sports as a phenomenon

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	the attendance on the lessons - control test of the 1st semester - control test for 2nd semester	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	100
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	0
Minimal performance standards: Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)			

11. Appointment timetable (for students)

Lect dr Steff Zakarias	Luni 18-20
Șef I dr Turcanu Dana-Simona	Turcanu Dana Simona - Wednesday 16-17

Asist Varodi Ionuț

Vineri 18-20

Head of departament

Course coordinator

Practical activities coordinator(s)



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academic year: 2022 - 2023

1. Data regarding the program

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1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Năznea Adrian			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 0	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 20		
3.9 Total hours: 48		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Videoprojector

6. Specific competencies acquired

6.1 professional competencies:
Studentul va prezenta, la nivel începător, următoarele abilități:
-citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu
-înțelegerea mesajelor receptate pe cale auditivă
-vorbierea cu respectarea regulilor gramaticale și de pronunție
-cunoașterea și utilizarea corectă a unui vocabular de bază
6.2 transversal competencies:
Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale.

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.

7.2 Specific objectives:

La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie.

8.1 Content of seminar, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Alfabetul si sunetele limbii române. Prezentarea. Formule de salut	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Date personale (nume, naționalitate, țară) Pronumele personal, verbul „a fi”	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Date personale (vârstă, adresă, profesie) Mulțumiri și scuze	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Verbul „a avea”, „a face” Numeralul cardinal	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	Substantivul: număr, gen. Sala de clasa: obiecte inconjuratoare Articolul nedefinit plural	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Culorile, acordul adjectivului Conversația telefonica	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	Exprimarea timpului: ora, zile, luni, anotimpuri, vremea Exerciții. Recapitulare	Rezolvarea unor probleme, conversația, dialogul, munca pe perechi și în grup; PBL; TBL	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, CV, Pascale, LE, Limba română - manual pentru studenți străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit în România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Cunoașterea limbii române va facilita comunicarea cu pacienții și personalul medical în timpul stagiilor de practică și integrarea în comunitatea locală

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitatea de a înțelege și completa exerciții de multiple choice, potrivire, folosirea corectă a numărului, articolului verbelor învățate	Test scris care cuprinde exerciții de vocabular și gramatică	50
Final evaluation			
- theoretical final exam	-	-	0

- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog medic-pacient	50
Minimal performance standards: Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.			

11. Appointment timetable (for students)

Lect dr Năznea Adrian	Miercuri 16-18, sala 37 Clădirea Centrală

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical terminology - applied linguistics and communication skills in Romanian language			
2.2 Course coordinator: Lect dr Năzneaș Adrian			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
Cunoașterea limbii române la nivel mediu.

5. Conditions

5.1 for lectures:
Sală dotată cu mijloace multimedia
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
La sfârșitul cursurilor, studentul va putea sa:
-folosească funcțiile specifice limbajului de specialitate (sa adreseze întrebări, formuleze opinii, sfaturi, sa convinga,
sa explice, sa descrie situații concrete specifice domeniului medicina dentara)
-citească fluent si corect si sa inteleaga continutul unor texte de specialitate de dificultate medie/ avansata
-sa inteleaga mesaje receptate pe cale auditiva legate de sfera profesionala
-sa vorbească fluent si corect, folosind un vocabular variat si adecvat unor situații specifice domeniului

-sa scrie corect, conform regulilor gramaticale, folosind un stil si un vocabular adecvat continutului de idei
-sa utilizeze un vocabular variat de termeni din domeniul de specialitate.

6.2 transversal competencies:

Studentul va putea sa:

-utilizeze limba română ca mijloc de comunicare cu alti vorbitori ai aceleiasi limbi in situatii din domeniul medicinei dentare;

- faca prezentari orale;

- se documenteze si sa structureze informatii, sa sintetizeze date obtinute prin chestionare administrate unui grup tinta pentru pregatirea si elaborarea de lucrari in domeniu, participarea la stagii;

- se familiarizeze cu utilizarea unor platforme de comunicare virtuala si munca in grup.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Cunoașterea limbii române la nivel avansat.

7.2 Specific objectives:

Dezvoltarea celor patru abilități de bază: citirea, înțelegerea mesajelor receptate pe cale auditivă, comunicarea verbală, comunicarea scrisă precum și familiarizarea cu vocabularul din domeniul de specialitate

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinei generale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
2	Introducere în terminologia medicinei dentare. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
3	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
4	Bolile dinților. Boli parodontale. Abcesul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2

		corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea			
5	Bolile dinților. Cariile dentare. Placa dentară. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
6	Investigații în medicina dentară: Radiografii dentare. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
7	Comunicarea cu pacientul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2

Bibliography

Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12

Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/2009

Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr. 2-3, anul XIII

Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași

Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Studentul, absolventul viitor, va putea să comunice în limba română atât cu potențialul angajator, cât și cu pacienții.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Dialogul	Verificare pe parcurs	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specific situației	Întrebări cu complement multiplu, formare de cuvinte, potrivire de cuvinte, completare de spații	60
- practical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specific situației	dialogul	10
Minimal performance standards:			
Să poată interacționa cu pacientul în conducerea interviului medical, să știe să adreseze întrebări referitoare la			

anamneză, să poată oferi explicații, recomandări simple; să citească și să înțeleagă ideile principale ale unui text sau mesaj audio, să poată răspunde la întrebări pe baza lor fără greșeli mari la nivelul organizării discursului, să cunoască un număr satisfăcător de termeni specifici domeniului.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Lect dr Năznea Adrian	Miercuri 16-18, sala 37 Clădirea Centrală

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biocompatibility of dental materials			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular: Dental students' option for this preclinical optional course.
4.2 competency: English language examination certificate (B2 or C1).

5. Conditions

5.1 for lectures: Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: -The student will know the properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. -Future dentist should be able to choose a dental material from the variety of options on the market according to its potential health risks. They must know which material is better, more efficient and especially which matches the requirements and demands of patients, ensuring the optimum conditions to comply with the international norms. -In addition, the student will understand to what extent dental materials may be hazardous to patients and the environment.

6.2 transversal competencies:

- The student will be aware that the work they perform it is a teamwork performed by the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in dental practice.
- Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

- To acquire the necessary knowledge about the potential health risks of dental materials regarding their proper and efficient use in dental practice.

7.2 Specific objectives:

- To acquire the ability to understand different aspects about the properties of dental materials which have major implications in dental health.
- Understanding theoretical aspects of biocompatibility to be able to use the appropriate dental materials in practice.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Fundamental aspects of biocompatibility.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
2	Determination of biocompatibility: evaluation and test methods.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
3	Regulations and standards.	Test, multimedia.	Evaluation (30% of final grade).	-	2
4	Biocompatibility of dental amalgam and resin-based composites.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
5	Biocompatibility of dental cements and ceramics.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
6	Biocompatibility of dental alloys and polymers.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
7	Side effects of dental materials, occupational exposures and environmental aspects.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2

Bibliography**References (compulsory):**

1. 'Dental Materials' on BlackBoard and E-learning Platform, Website of the UMFST G.E.

Palade of Tg.Mures

2. Schmalz G., Arenholt-Bindslev D.: Biocompatibility of Dental Materials. Springer-Verlag Berlin, Heidelberg, 2009.

3. Székely M., Borş A., Molnar-Varlam Cristina: Dental Materials – Course for Students. University Press, UMFST Tg.Mureş, 2019.

References (facultative):

1. McCabe J.F., Walls A.W.G.: Applied Dental Materials. Editura Blackwell Science, Oxford, 1998.

2. Von Fraunhofer J.A.: Dental Materials at a Glance. Wiley-Blackwell Publishing, Oxford, 2010.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Marketing and dental practice management performance through knowledge regarding the biocompatibility of dental materials.
- Didactic activity in practical instruction or administration in the field of dental materials.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge. Attendance to lectures according to the Regulations of Discipline.	Grade obtained on test individually.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Exam test – multiple choice questions.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for the final theoretical exam: to know the basics regarding the biocompatibility of dental materials.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	30 min. after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Adhesive modern techniques in dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical knowledge on contemporary dental adhesive techniques covering various ramifications of adhesion and adhesives in the broad domain of dentistry, providing an important evidence base. A solid grasp of the principles, mechanics and techniques of bonding and modern adhesive systems is essential in dentistry. The course includes theoretical aspects of the concept of „adhesive dentistry” as it is apparent that adhesion and adhesives play important roles in modern clinical dentistry. Students will develop skills and confidence through the design and execution of minimally invasive indirect and direct adhesive techniques in order to achieve the best functional and aesthetic results, in point of view of achieving an appropriate treatment plan.

6.2 transversal competencies:

The course will be delivered as a series of interactive meetings. For students to achieve a comprehensive, well-rounded education, integrated teamwork on several fronts is vital. Teamwork is necessary between students and between students and teachers. The more teamwork fundamentals exhibited, the more opportunity exists for students to learn the vital skills of compromise and collaboration in modern adhesive dentistry.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

-The student has to understand the basic concepts on the techniques used in adhesive dentistry.
-The student will learn to develop skills to apply the gained knowledge with an appropriate correlation in various clinical situations in which it is possible to use these methods.

7.2 Specific objectives:

-The student will be able to describe the concepts and methods used in modern adhesive techniques.
-The student will acquire the ability to understand different aspects of composition and properties of various adhesive systems which have implications for major applications in dentistry.
-Applications of theoretical knowledge on various adhesive systems to their use in dental practice.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Materials, methods and technique options for adhesive fixing.	Test	Two hours every week in english.	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Adhesive techniques used in pedodontics.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.
2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-Course content is in accordance with the courses on the same topic listed in other universities with important achievements in theoretical and empirical evidence techniques in adhesive dentistry.
-Acquiring these modern restorative methods will be extremely useful for future dentists, adhesive techniques representing the greatest progress that restorative dentistry registers itself.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic.	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of modern adhesive techniques used in dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Tuesday 13-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Diet principles in oral pathology			
2.2 Course coordinator: Prof dr Tarcea Monica			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular: - nu e cazul
4.2 competency: - nu e cazul

5. Conditions

5.1 for lectures: minim 15 cursanti
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Descrierea noțiunilor de bază ale funcționării organismului uman și a mecanismelor generale de producere a bolilor. - Integrarea noțiunilor de bază în concepte/ situații care se aplică organismului uman cu scopul de a explica semne și simptome. - Descrierea conceptelor, teoriilor și noțiunilor fundamentale de fiziopatologie, pe sisteme și mecanisme de acțiune. - Stabilirea tehnicilor de îngrijire impuse de existența unor semne și simptome de boală. - Stabilirea principiilor terapeutice care modifică mecanismele fiziopatologice în vederea ameliorării simptomelor

bolii.

- Utilizarea noțiunilor dobândite în cadrul disciplinei pentru cercetarea științifică ulterioară

6.2 transversal competencies:

Realizarea unei lucrări/referat/ caz clinic cu identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente diverselor mecanisme fiziopatologice.

- Identificarea rolurilor și responsabilităților într-o echipă pluridisciplinară și aplicarea de tehnici de relaționare și muncă eficientă în cadrul echipei și în relație cu pacientul.

- Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată (portaluri Internet, aplicații software de specialitate, baze de date de tip PUBMED, cursuri on-line etc.) atât în limba română, cât și într-o limbă de circulație internațională.

- Dezvoltarea gândirii medicale și folosirea informațiilor științifice în contextul interdisciplinarității

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning of basic diet principles and how to elaborate on specific diets recommended in various oral and dental illnesses.

- To monitor and evaluate the hazards related to nutrition, their effects on teeth and oral mucosa, and proper intervention to reduce and prevent the illnesses related to it and to promote the dental health status of the population.

7.2 Specific objectives:

- Analysis of main components of a healthy diet with a good impact on teeth

- Identification of general functions and major food sources for each nutrient necessary for dental and oral system

- To know the methodology of evaluation of food quality and food safety.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Definition and importance of nutrition in for a healthy dental status and prevention of chronic diseases. Healthy diet principles for mouth and teeth.	Oral presentation and multimedia	-	disorders of calcium and vitamin D metab	2
2	Dietary assessment. Digestion, absorption and metabolism of food and nutrients and dental impact.	Oral presentation and multimedia	-	eating disorders	2
3	Dietary reference and nutrients and caloric intakes for the body. Major food sources recommended in oral pathology and cooking technics	Oral presentation and multimedia	-	eating disorders	2
4	Diet recommendations during life cycle for healthy teeth: children, teenagers, adults, senior, athletes and pregnant women.	Oral presentation and multimedia	TBL	malabsorption	2
5	Diets and menus recommended in various oral and dental illnesses like: caries, edentations, trush, granulomatosis, dermatosis, candidiasis or viral infections.	Oral presentation and multimedia	-	candidiosis	2
6	Diets and menus recommended in cancer	Oral presentation and multimedia	-	malnutrition	2
7	Diets and lifestyle practices recommended in diabetes, heavy metals poisoning, fluorosis or xerostomia	Oral presentation and multimedia	Final evaluation by Essay	xerostomiosis	2

Bibliography

1. Mahan LK, Escott-Stump S. - Krause's Food, Nutrition, and Diet Therapy. 14th ed. W.B. Saunders Co, Philadelphia, 2014.

Bibliografie suport:

2. Nnakwe NE. – Community Nutrition, Planning Health promotion and Disease Prevention, 3rd edition, Edit. Jones & Bartlett Learning, 2017

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Evaluation and analysis of food nutritional risk factors and proper implementation of dental health programs, preventive measures, and education training for the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Verificare	Referat	60
- practical final exam	Studii de caz	Discutii, dezbateri	30
Minimal performance standards:			
- admitere la examenul practic doar daca nu depaseste 50% din absente nerecuperate			
- nota minima 5 la practic si teoretic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tarcea Monica	30 minute dupa fiecare curs/activitate practica

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials in paediatric dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-In addition to acquiring material handling modern techniques of dental materials used in restorative pediatric dentistry, the student will know the composition, the physical, mechanical and chemical properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. There is a specific use of the dental materials in pediatric dentistry, new restorative and therapeutic materials have been developed, and there are specific pedodontic materials that the student will endorse.
-Future dentist should know that there are many variants of restoring coronary lesions in temporary and young

permanent teeth and he or she should be able to choose a material from the variety of options on the market. They must know which material is better, more efficient and especially which matches the requirements and demands of the small patients, ensuring the optimum conditions to comply with the international norms. In addition, the student will understand the orthodontic biomechanical ways and the materials from which are manufactured the orthodontic brackets and devices for functional rehabilitation used in orthodontics.

6.2 transversal competencies:

- Collaboration and teamwork is today a complex, requiring permanent university training. The student realizes that the work they perform is a teamwork and the human factor is: the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in pediatric and orthodontic practice.
- Teamwork, passion for performance and commitment to helping patients equally binds students to become increasingly efficient dental professionals in dental practice.
- Marketing and dental practice management performance through knowledge of dental materials.
- Didactic activity in practical instruction or administration in the field of dental materials used in pedodontics and orthodontics.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

- To acquire the necessary knowledge for the proper and efficient use of materials in pediatric dentistry and orthodontics.

7.2 Specific objectives:

- To acquire the ability to understand different aspects about the composition and properties of dental materials which have major implications in practice in pediatric dentistry and orthodontics.
- Understanding theoretical aspects on dental materials to be able to use in pediatric dentistry.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Generalities, conditions of materials used in pediatric dentistry. Prophylactic materials: fluoride containing products.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Pit and fissure sealants.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Materials for pulpo-dentinal protection, cavity base materials for pediatric dentistry use.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Restorative materials. Materials used for endodontic treatments in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
5	Materials used for cementation of orthodontic appliances. Materials used for prosthodontic treatment in pediatric dentistry (crowns for children).	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Materials used for different orthodontic appliances.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Materials for mouthguards used in sport activities. Impression materials in pediatric	Oral presentation, multimedia, participative	Two hours every week in english.	-	2

dentistry. Generalities about reparation and reconditioning of appliances used in pediatric dentistry.	discourse, argumentation.			
Bibliography 1. SC Leal, EM Takeshita: Pediatric Restorative Dentistry. Springer International Publishing, 2019. 2. Van Noort R: Introduction to Dental Materials. 4th ed. Mosby Elsevier Publishing, Edinburgh, 2016.				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics.	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials used in paediatric dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Friday 14-15

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ethics and academic integrity			
2.2 Course coordinator: Șef I dr Sălcudean Andreea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities:
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities:
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
- theoretical and practical aspects specific to the debated issues
- developing the capacity for analysis and synthesis, using terms specific to the topic discussed
6.2 transversal competencies:
- be aware of the importance of academic ethics and integrity
- identify forms of lack of academic honesty
- know the consequences and sanctions of plagiarism or other forms of dishonesty
- identify potential social effects of lack of academic integrity

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Individual development of knowledge regarding ethics and academic integrity
7.2 Specific objectives: - presentation of the fundamental concepts specific to the field of ethics and academic integrity; - knowledge and understanding of academic responsibilities and rights - promoting ethical behaviors and discouraging practices that lack integrity among students - identifying forms of lack of academic honesty - awareness of the consequences and sanctions of plagiarism or other forms of dishonesty - awareness of the social effects of lack of academic integrity

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Ethics and academic integrity - terms and definitions, responsibilities and academic rights	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
2	Intellectual property and copyright	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
3	Lack of academic integrity, examples of dishonest behavior	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
4	Plagiarism. Forms of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
5	Identification of plagiarism. Consequences and sanctions of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
6	Other academic dishonesty	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
7	The social effects of lack of academic integrity	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2

Bibliography

1. Fish, R., Hura, G. 2013 - Students' perceptions of plagiarism, în Journal of the Scholarship of Teaching and Learning, 13 (5), pp. 33 – 45.
 2. Ives, B. et al. 2016 - Patterns and predictors of academic dishonesty in Romanian university students, în Higher Education, 74 (5), pp. 815 – 831.
 3. McCabe, D.L. 2005 - It takes a village: Academic dishonesty and educational opportunity, în Liberal Education, 91, pp. 26–32.
 4. Park, C. 2003 - In Other (People's) Words: plagiarism by university students-literature and lessons, în Assessment & Evaluation in Higher Education, 28 (5), pp. 471 – 488.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The approached topic is updated, taking into account the social or professional context of the future graduate.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade

Evaluation during the semester			
- lecture	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	TBL and tests (10% TBL + 20% ongoing tests)	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	Test	70
- practical final exam	-	-	0
Minimal performance standards: Fulfillment of all school obligations according to the regulations in force. Acquiring knowledge about ethics and academic integrity.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Sălcudean Andreea	Miercuri, 8-10

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: First aid measures
2.2 Course coordinator: Șef I dr Lazăr Alexandra-Elena
2.3 Practical activities coordinator(s): Asit univ dr Almasy Eموke, Asist univ dr Branea Oana Elena
2.4 Year of study: I 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 5		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 47		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular: Basic anatomy and physiology knowledge
4.2 competency: -

5. Conditions

5.1 for lectures: Internet access. Video-projection possibility
5.2 for practical activities: Internet access Training manikins

6. Specific competencies acquired

6.1 professional competencies: After this course, the student will be able to recognize a life-threatening situation that implies first aid measures. Can recognize respiratory and cardiac arrest, and traumatic and neurologic emergencies. Will be able to execute first aid measures in the situations mentioned above.
6.2 transversal competencies: After this course, the student will recognize the specific cases where he is legally bound to intervene, know his competency level, and be trained to activate the emergency system 'survival chain'. The student will understand

the ethical and legal aspects of his intervention, identifying the priorities and his role in a particular emergency situation.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Life-saving first aid maneuvers.

7.2 Specific objectives:

First-aid situations can be encountered in a dental practice and if not solved, can endanger a patient's life.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	First aid measures: definition, objectives. Guidelines and protocols. Ethical and legal aspects of first aid.	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, infant s sudden death	2
2	Cardio-respiratory arrest diagnosis. Resuscitation history. Chain of survival. Rescuers risks	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, infant s sudden death	2
3	Children and infants Cardio-respiratory arrest resuscitation guidelines. Foreign body airway obstruction: diagnosis and first aid protocols in children and infants	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, stridor	2
4	Adult Cardio- respiratory arrest resuscitation guidelines. Foreign body airway obstruction: diagnosis and first aid protocols in adults.	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, stridor	2
5	Automatic external defibrillation. Special situation resuscitation: drowning, electrocution, pregnancy, hypothermia.	Oral presentation Multimedia presentation	-	Rhythm abnormalities, hypothermia.	2
6	Trauma. Acute coronary syndromes, dyspnea, fainting, convulsions, stroke, diabetic coma- first aid measures. Animal/insects bites/ stings, behavioral emergencies: diagnosis and first aid measures	Oral presentation Multimedia presentation	-	Thoracic and abdominal trauma, head trauma, limb trauma, spine trauma. Ischemic cardiac pathology. Diabetes. Epilepsy.	2
7	Shock. Hemorrhage. Diagnosis and first aid protocols.	Oral presentation Multimedia presentation	-	Shock	2

Bibliography

<http://www.cprguidelines.eu/2020>

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Universal safety measures	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
2	Airway, foreign body airway obstruction protocol, lateral safety position in adults,	Practical activities	CBL	Dyspnea	2

	children and infants.	Multimedia presentation			
3	Adult Basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
4	Adult Basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
5	Children and infants' basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
6	Children and infants' basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
7	Trauma - fracture splinting, victim mobilization, transportation. First aid in hemorrhages.	Practical activities Multimedia presentation	CBL	Thoracic and abdominal trauma, head trauma, limb trauma, and spine trauma.	2

Bibliography

<http://www.cprguidelines.eu/2020>

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The knowledge of basic first aid ensures the first-year student the capacity to intervene with competence in possible situations that could affect him/her directly, the family or the professional community where he/she conducts his/her activities or the community in general. The theoretical and especially practical knowledge acquired throughout the course will set the base for learning, as a first contact with the medical terms for the disciplines in the years to come.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	TBL	15
- practical activities	-	CBL	15
Final evaluation			
- theoretical final exam	Knowledge of theoretical aspects of first aid.	Multiple choice written test	50
- practical final exam	Knowledge and execution of basic first aid maneuvers.	Practical demonstration on simulation manikins	20

Minimal performance standards:

Minimum knowledge should comprise:

- definition and diagnostic criteria for cardiac arrest
- correct execution of first aid techniques in adults, children, and infants
- airway obstruction recognition and first aid maneuvers
- particularities of first aid in special situations
- legal and ethical aspects of first aid
- understanding and using a communication protocol

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Lazăr Alexandra-Elena

Every 30 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Histology. Cytology
2.2 Course coordinator: Șef I dr Pataki Simona-Tunde
2.3 Practical activities coordinator(s):
2.4 Year of study: I 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 0		
- examinations: 9		
- other activities: 5		
3.8 Total hours of individual study: 69		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Pataki Simona-Tunde	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Hygiene			
2.2 Course coordinator: Șef I dr Ferencz Jozsef-Loránd			
2.3 Practical activities coordinator(s): Șef lucr. dr Ferencz Jozsef-Loránd, Șef lucr. Dr. Moldovan Geanina			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 4		
- examinations: 2		
- other activities: 3		
3.8 Total hours of individual study: 33		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-Room with screen for video projection, wireless network and interactive system
5.2 for practical activities:
-According to the labor protection norms and the guide of good laboratory practices.

6. Specific competencies acquired

6.1 professional competencies:
-To describe the basic concepts, theories specific to environmental and food hygiene
- To assess the risks associated with environmental factors (water, air, habitat) and food
- To describe the methods and measures to prevent the diseases associated with environmental hazards and unsafe food
- To carry out projects and to demonstrate the ability to deliver health information and health education classes on different topics, to promote general wellbeing and healthy behaviors among the general population
6.2 transversal competencies:
Abilities to obtain, critically evaluate and apply health-related information in various contexts

- Skills regarding research methods and their application
- Written and oral communication, public speaking, and presentation
- Collaborative information seeking, evaluation, and decision making
- Awareness and observance of professional deontological norms

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

- To understand the impact of environmental and behavioral factors on human health
- To promote a preventative and patient centered medical thinking and practice
- To develop a comprehensive vision of medicine by raising awareness regarding the environmental and populational aspects of health and disease (hygiene, environmental health, epidemiology, public health)

7.2 Specific objectives:

- To apply standard methods for the detection, quantitative and qualitative assessment of environmental factors that influence human health
- To conduct basic nutritional evaluation and quantitative and qualitative food assessments
- To describe and apply the main strategies and measures for the prevention of diseases associated with environmental factors and food

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in hygiene and environmental health – Importance, definition and objectives of hygiene and environmental health. The WHO definition of health. Health determinants. Environmental risk – Risk assessment, management and communication. Environmental toxicology and epidemiology basics.	Oral and multimedia presentation	-	Chronic bronchitis and emphysema, Skin cancer, Substance abuse, Depression, Respiratory tract infection, Skin infections/infestations, Malaria, Malnutrition, Chronic lung disease, Thyroid disorders, Disorders of calcium and vitamin D metabolism	2
2	Air quality – Normal air composition. The sources and the effects of major air pollutants. Air quality standards and pollution prevention measures.	Oral and multimedia presentation	-	Dizziness, Headache, Tiredness, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
3	Water quality – Water intake and loss. Water sources and their characteristics. The water self-purification process. Sources of water pollution. Infectious and non-infectious water borne diseases. Drinking water standards. Drinking water treatment and public water supply systems. Wastewater.	Oral and multimedia presentation	-	Cyanosis, Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance	2
4	Urban and built environment – the health impact of housing and urban life. Environmental noise - sources, effects and control of noise pollution. Solid waste management. Exposure to radio-frequency electromagnetic fields (mobile phones)	Oral and multimedia presentation.	-	Dizziness, Headache, Pruritus, Hearing loss, Sleep disturbance, Skin cancer, Depression	2
5	Food quality – Food - health relationship. Macronutrients: proteins, fats, carbohydrates, dietary fibers. Micronutrients: Vitamins, minerals. Sources, daily requirements, deficiencies.	Oral and multimedia presentation	-	Weight gain, Weight loss, Constipation, Malnutrition, Thyroid disorders, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries), Disorders	2

				of uric acid metabolism, Disorders of lipid metabolism	
6	Food quality – Food borne diseases. Physical, chemical and microbiological contamination of food.	Oral and multimedia presentation	-	Headache, Loose stools, Abdominal pain, Vomiting	2
7	Promoting healthy nutrition – Food guides. Food groups: meat, fish, and meat products; eggs, milk, dairy products, grains, grain products, fruits, vegetables, legumes, and nuts. Processed foods. Sugar products, alcoholic and non-alcoholic beverages. Sources and nutritional value.	Oral and multimedia presentation	-	Weight gain, Weight loss, Constipation, Malnutrition, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries)	2

Bibliography

Mandatory bibliography:

- Tarcea M.: Environmental Hygiene, Course for English students, under edition, 2012
- Nădășan V. Hygiene – Environmental Health for Medical Students. Editura University Press, 2022.

Support bibliography:

- Frumkin H, Ed. Environmental Health: From Global to Local. San Francisco: Jossey Bass, 2005.

Optional

- Friis RH. Essentials of Environmental Health. Jones & Bartlett Publishers 2011.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Physical properties of the air – standards and assessment methods	Oral, multimedia presentation, practical activities	-	Dizziness, Headache, Pruritus, Hearing loss, Sleep disturbance, Allergic disorders	2
2	Air pollution assessment: PM2.5, dusts and gases. Air quality monitoring.	Oral, multimedia presentation, practical activities	-	-Chronic bronchitis and emphysema, Chronic lung disease	2
3	Indoor air pollution. Microbiological contamination of the air and surfaces.	Oral, multimedia presentation, practical activities. CBL1	-	Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
4	Tobacco smoke as an indoor pollutant. The brief advice to quit smoking.	Oral, multimedia presentation, practical activities	-	Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
5	Assessment of natural and artificial lighting conditions, and community noise.	Oral, multimedia presentation, practical activities	-	Tiredness, Headache, Hearing loss, Learning disorders	2
6	Drinking water quality: sensory characteristics, physical and chemical parameters.	Oral, multimedia presentation, practical activities.	-	Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance, Acid based disturbance	2
7	Drinking water chemical quality standards: organic pollutants, nitrites, nitrates. Microbiological analysis of drinking water. Assessment of drinking water treatment efficiency.	Oral, multimedia presentation, practical activities. CBL2	-	Cyanosis, Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance, Acid-based disturbance	2
8	Nutritional assessment: BMI, percentage of body fat. Assessment of caloric and nutrient intake.	Oral, multimedia presentation, practical activities	-	Weight gain, Weight loss, Constipation, Malnutrition, Thyroid disorders, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries), Disorders of uric acid metabolism, Disorders of lipid metabolism	2

9	Assessment of animal foods quality: meat, milk, eggs.	Oral, multimedia presentation, practical activities	-	Loose stools, Vomiting, Abdominal pain	2
10	Assessment of plant foods quality: fruits and vegetables. Assessment of canned food products, fatty foods, beverages.	Oral, multimedia presentation, practical activities	-	Loose stools, Vomiting, Abdominal pain	2
11	Parasitological and microbiological analysis of food. The HACCP system.	Oral, multimedia presentation, practical activities.	-	Loose stools, Vomiting, Abdominal pain	2
12	Nonionizing radiation – Sources, health effects and risks of exposure to UV radiation. Assessing the evidence regarding the effects of radio frequency radiation and microwaves.	Oral, multimedia presentation, practical activities	-	Visual impairment, Headache, Vomiting, Burns, Skin cancer	2
13	Ionizing radiation – Basic rules for radioprotection. Radiation monitoring. Estimating general and medical irradiation.	Oral, multimedia presentation, practical activities	-	Skin cancer, Bone malignancy, Childhood tumours, Immunodeficiency, Malformations of cardiovascular system, Malformations of lip/palate, Malformations of spine/CNS	2
14	Child and adolescent hygiene – Personal and school hygiene. Prevention of risk behaviors in children and adolescents: smoking, alcohol, drugs. Recovery	Oral, multimedia presentation, practical activities	-	Tiredness, Normal child development, Child abuse, Substance abuse, Learning disorders, Disorders of puberty, Sexually transmitted disease, Hair disorders, Infectious diseases of childhood	2

Bibliography

- Ábrám Z., Tarcea M., Finta H. et al – Hygiene Practical laboratory Guide, under edition, UMF Târgu Mureș, 2012
 - Health risk assessment of air pollution – general principles. Copenhagen: WHO Regional Office for Europe; 2016.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-To evaluate, analyze and interpret environmental (water, air, radiation, noise, soil, waste) and behavioral risk factors
 - To develop individual and community programs for the prevention of diseases associated with environmental and behavioral factors
 - To develop the skills needed to conduct health education activities and promote health at the individual and community level

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Assessment of knowledge and ability to apply it individually and in a team	Referat	10
- practical activities	Assessment of knowledge and ability to apply it individually and in a team	CBL	20
Final evaluation			
- theoretical final exam	Assessment of knowledge gained during the course	Multiple choice test	50
- practical final exam	Assessment of knowledge gained during the practical activities	Multiple choice test	20

Minimal performance standards:

To describe the determinants of health and their influence on the human organism, the optimal parameters of air and water quality. To develop and implement strategies and measures to prevent air and waterborne diseases,

radiation and noise associated illnesses. To describe and promote the principles of healthy nutrition and food safety. To describe the most important behavioral risk factors in children and adolescents and promote health-promoting behaviors.

- Minimum requirements for admission to the final theoretical exam: course attendance is mandatory. Students missing more than 20% of the course will not be admitted to the final exam. Students undertake a multiple choice test that evaluates knowledge taught during the course. A grade of 5 is required to pass the test.

- Minimum requirements for admission to the final practical exam: practical activities attendance is mandatory. Students missing more than 20% of the practical activities will not be admitted to the final exam. Students undertake a multiple choice test that evaluates knowledge taught during the practical activities. A grade of 5 is required to pass the test.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Ferencz Jozsef-Loránd	Marti 16-18

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical terminology			
2.2 Course coordinator: Conf dr Varga Andreea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 2		
- other activities: 5		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Varga Andreea

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Teeth and dental arches morphology			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): Șef lucr. dr. Borș Andreea			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week:	3.2 lecture: 2	3.3 practical activities: 6
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 0		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 6		
- examinations: 6		
- other activities: 0		
3.8 Total hours of individual study: 38		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: Curricular reform
4.2 competency: English language examination certificate (B2 or C1)

5. Conditions

5.1 for lectures: Multimedia equipment
5.2 for practical activities: Laboratory for dental technicians, specific tables for practical work, instruments for model plaster and wax carving, dental materials (model plaster, dental stone, wax, acrylic models) for on-site practical work. Multimedia equipment for online practical work.

6. Specific competencies acquired

6.1 professional competencies: - Understanding the terms used to describe the morphology of human primary and permanent dentition. - The discipline provides dental students with basic knowledge required when answering dental anatomy questions on the examinations. - Practical work by the plaster and wax modeling of teeth have the value of developing skills to accurately visualize and reproduce the subtle outline of each tooth.

6.2 transversal competencies:

- Aquisition of skills and abilities necessary for dental practice.
- This discipline provides and introduction in dentistry through the knowledge regarding the functional morphology of teeth and dental arches, and with respect to masticatory function.
- All clinical disciplines in dental medicine are based on the terminology learned throughout this praeclinical discipline.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

To know the morphology (anatomy) of teeth and dental arches which will be applied in conservative dental restorations (C2) prosthetic restorations (C4) and are necessary in diagnostics and treatments of dental anomalies (C3).

7.2 Specific objectives:

- To learn the human tooth morphology, the functional connection between the teeth and dental arches in masticatory function.
- To know the shape and function of all components of the stomatognathic system as an interrelation between form and function.
- To reproduce each tooth morphology accurately through model plaster and wax modeling.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The dentition. Terminology used for describing tooth morphology: crowns and roots.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
2	Primary functional morphology of permanent anterior teeth, class traits (common morphological features). Individual morphological characteristics of the maxillary first incisor.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
3	Individual morphological characteristics of the upper lateral incisor and the lower incisors.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
4	Tooth identification (numbering) systems.	Test + multimedia	Evaluation (5% of final grade)	-	2
5	Individual morphological characteristics of the upper and lower canines. Traits to distinguish maxillary from mandibular permanent anterior teeth.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
6	Primary functional morphology of permanent posterior teeth, class traits.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
7	Individual morphological characteristics of the upper and lower premolars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
8	Individual morphological characteristics of the upper molars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
9	Individual morphological characteristics of the lower molars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
10	Traits to compare and to distinguish all permanent teeth: maxillary and mandibular teeth; anterior and posterior teeth.	Test + multimedia	Evaluation (5% of final grade)	-	2

11	Morphology of primary (deciduous) teeth. Class and type traits (common and different) of primary teeth compared to permanent teeth.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
12	Dental arches: form, dimension, axial position, inter arch relationship of teeth (basic terms).	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
13	The teeth role in mastication: correlations between primary functional tooth morphology and chewing (basic terms).	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
14	Secondary functional morphology of teeth and dental arches (basic terms). Recapitulation.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
Bibliography Bibliography References (compulsory): 1. 'Morphology of teeth and dental arches' on BlackBoard and E-learning Platform, Website of the UMFST G.E. Palade of Tg.Mures 2. Scheid R. C., Weiss Gabriela: Woelfel's Dental Anatomy. 8th edition. Lippincott Williams&Wilkins, Philadelphia, 2012. 3. Székely M., Borş A.: Morphology of Teeth and Dental Arches – Course for Students. University Press, UMFST Tg.Mureş, 2019. References (facultative): 1. Bereşescu G.: Dinţii umani permanenţi. Editura University Press, Tîrgu-Mureş, 2011. 4. Székely M.: A fogak és fogívek funkcionális morfológiája – ediția a doua. Editura University Press, Tîrgu-Mureş, 2009.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline and the dental laboratories. Inner rules of the discipline and also rules of the workplace safety are presented.	Oral presentation and printed documents.	English language used, students sign to confirm that they were informed.	-	6
2	Morphology of anterior teeth: individual modeling of the upper first incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
3	Morphology of anterior teeth: individual modeling of the upper second incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
4	Morphology of anterior teeth: individual modeling of the lower first incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
5	Morphology of anterior teeth: individual modeling of the upper canine from model plaster on a scale of 1/2. Knowledge assessment.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6

6	Morphology of posterior teeth: individual modeling of the upper first premolar from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
7	Morphology of posterior teeth: individual modeling of the lower second premolar from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
8	Morphology of posterior teeth: individual modeling of the upper first molar from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
9	Morphology of posterior teeth: individual modeling of the lower first molar from model plaster on a scale of 1/2. Knowledge assessment.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
10	Morphology of anterior teeth: individual modeling from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
11	Morphology of posterior teeth: individual modeling of premolar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
12	Morphology of posterior teeth: individual modeling of upper molar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
13	Morphology of posterior teeth: individual modeling of lower molar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
14	Modeling a tooth for a higher grade or recovery of an absence. Recapitulation	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6

Bibliography**Bibliography**

Bratu D., Leretter M.A., Colojoară Carmen, Romînu M.: Dinții umani permanenți – morfologie, desen și modelaj. Editura Signata, Timișoara, 1991.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

1. This discipline is primarily intended as a guide for dental students to master the details of tooth morphology which will be useful in the dental office in conservative and prosthodontic treatments.
2. The future activity of the dentist is based on the theoretical and practical knowledge and skills acquired in this discipline.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge.	Grade obtained on test individually.	10
- practical activities	Practical knowledge related to theoretical knowledge.	Laboratory Report (grades for practical works, and also for the complete laboratory report and presence) and tests through summative evaluation.	20
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Theoretical exam by test: multiple choice + short redactional questions.	50
- practical final exam	Practical knowledge and skills joint with theory.	Practical exam including response to a question.	20
Minimal performance standards:			
Minimal performance standards:			
- Necessary knowledge for achieving the passing grade 5 (five) for every evaluation criteria. The presence for the practical exam is conditioned by the minimum participation at 80% of the laboratory sessions and the achievement of the schedule of practical activities during the semester and also notes and schematic drawing of teeth are required.			
- Attendance on practical work is compulsory, absence must be recuperated. No more than 20% of absence from practical work and courses are accepted. Attendance on TBL course is compulsory.			
- Knowledge required for achieving the minimum grade 5 for the practical exam is that the student performs model plaster or wax modeling respecting all morphological details at a minimal level. Knowledge required for achieving the minimum grade 5 for the theoretical exam: the student has to mark half of all the correct answers on the multiple choice test.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	30 min after each course (30 de minute după fiecare curs)

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biochemistry of oral cavity			
2.2 Course coordinator: Prof dr Tero-Vescan Amelia			
2.3 Practical activities coordinator(s): Conf Dr Nemes Nagy Eniko, Asist Drd Madalina But			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 11		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 5		
- examinations: 5		
- other activities: 8		
3.8 Total hours of individual study: 47		
3.9 Total hours: 75		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Corelarea stării de boală cu procesele biochimice la nivel molecular implicate în dezechilibrele care pot afecta sănătatea țesuturilor dentare Conduita terapeutică conservativă a structurilor odontalo-parodontale în concordanță cu aspectele biochimice care pot influența structurile sus numite Diagnosticul și terapia interceptivă a anomaliilor aparatului dentomaxilar ținând cont de eventualele deficite enzimatice și vitaminice în

dezvoltarea aparatului dento-maxilar.

Restaurarea protetică a arcadelor dentare folosind materialele dentare cele mai potrivite în corelație cu particularitățile biochimice individuale ale fiecărui pacient

6.2 transversal competencies:

Identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente

Identificarea rolurilor și responsabilităților într-o echipă pluridisciplinară în care cunoștințele legate de metabolismul biochimic pot da informații cruciale asupra tratamentului și tehnicilor aplicate și aplicarea de tehnici de relaționare și munca eficientă în cadrul echipei și în relație cu pacientul

Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Obiectivul disciplinei este formarea unei culturi generale medicale a studenților. De asemenea se urmărește prezentarea principalelor căi metabolice din celule vii, cu specificări legate de metabolismul celulelor și țesuturilor dentare și peridentare. Un alt obiectiv general al acestui curs este prezentarea metabolismului bacterian în stânsă legătură cu procesul carios.

7.2 Specific objectives:

Cunoașterea particularităților metabolismului biochimic la nivelul cavității orale. Cunoașterea proceselor degradative în timpul formării cariilor dentare

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Carbohydrates: monosaccharides: isomerism, derivatives. Disaccharides. Polysaccharides and storage forms. Carbohydrate digestion. Glycoproteins, glycosaminoglycans, proteoglycans. Glycolysis and gluconeogenesis. Metabolism of fructose and galactose	oral presentation	-	-	2
2	Other glucose metabolism pathways: the pentose phosphate cycle, the glucuronic acid pathway. Glycogen metabolism. Glycogenesis.	oral presentation	-	-	2
3	Lipid metabolism: representatives. Beta-oxidation of fatty acids: mechanism, energy balance. De novo biosynthesis of fatty acids. Elongation of the chain. Metabolism of eicosanoids.	oral presentation	-	-	2
4	Triglyceride metabolism. Phospholipid metabolism. Metabolism of sphingolipids. Digestion and transport of lipids in the body.	oral presentation	-	-	2
5	Metabolism of ketone bodies Cholesterol metabolism. Cholesterol transformation pathways in the body.	oral presentation	-	-	2
6	Nucleotide metabolism: regulation, role, pathology. Heme metabolism. Amino acid metabolism and the ureogenetic cycle	oral presentation	-	-	2
7	Metabolism of nucleic acids: replication, transcription and translation. The formation of dental caries. Dental plaque. Saliva composition	oral presentation	-	-	2

Bibliography

David L Nelson, Michael M Cox - Lehninger Principles of Biochemistry, 8th Edition
 Jeremy M. Berg, Lubert Stryer, John Tymoczko, Gregory Gatto - Biochemistry 9th Edition
 Thomas M. Devlin - Textbook of Biochemistry with Clinical Correlations, 6th Edition
 Tero-Vescan A, Ősz BE, Imre S – Principii de Biochimie Medicală, Ed University Press Tîrgu Mureş, 2018

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The influence of substrate concentration on the speed of the enzymatic reaction. The influence of pH, temperature and some ions on the speed of the enzymatic reaction	practical determination	-	-	2
2	Determination of amylase activity	practical determination	-	-	2
3	Determination of transaminase activity	practical determination	-	-	2
4	Determination of serum triglyceride. Determination of beta-lipoproteins	practical determination	-	-	2
5	Determination of total and HDL cholesterol	practical determination	-	-	2
6	Determination of creatinine by Jaffe method. Determination of serum urea	practical determination	-	-	2
7	Determination of uric acid	practical determination	-	-	2

Bibliography

Oşan A, Nagy E, Tero-Vescan A - Biochimie practică, Ed University Press Tîrgu Mureş, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Cunoaşterea aspectelor generale privind structura biomoleculelor în relație cu rolul lor biologic. Cunoaşterea căilor metabolice și rolul lor în dezvoltarea unor patologii

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	MCQ	10
- practical activities	quizzes and lab reports	MCQ	20
Final evaluation			
- theoretical final exam	multiple choice quiz	test	70
- practical final exam	-	-	0
Minimal performance standards: Knowledge of the structures of carbohydrates, lipids and amino acids and the main metabolic pathways			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tero-Vescan Amelia	Luni 12-14 Marti 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anatomy and embriology			
2.2 Course coordinator: Șef I dr Nechifor-Boila Ioan-Alin			
2.3 Practical activities coordinator(s): Șef I dr Nechifor-Boila Ioan-Alin			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 30		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular: nu este cazul
4.2 competency: Basic knowledge in biology, a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion pictures
5.2 for practical activities: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion pictures, a properly processed and preserved corpse, a proper number of correctly prepared preparats, models, casts, skeleton, large sized mobile posters

6. Specific competencies acquired

6.1 professional competencies: Describing and interpreting fundamental notions of the morphology and functioning of the dentomaxillary apparatus, integration of these in concepts/situations meant to apply solutions with the aim of formulating hypotheses and to correctly interpret signs, symptoms and paraclinical modifications for building a morphological

and a clinical diagnosis, developing of novel professional competences in the general and the specific dentistic healthcare.

6.2 transversal competencies:

Acquiring skills and techniques which enable identification of objectives to be fulfilled, of resources available, of the conditions to match, of the work phases, of the deadlines and afferent risks according to a minimal standard: implementation of projects under coordination for solving certain problems specific of the field.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquiring notions of general anatomy, the functional and topographic structure of the head and neck. Learning the bases of the ontogenesis of the human body. The student becomes knowledgeable and versed in the organizational, developmental and functional principles of the body. The student develops skills to be oriented on the surface and in the depths of the human body. He also will be able to understand the interrelations between different systems and subsystems. The student develops a correct vision about the shape and content of the living body, the functional normality which is to re-establish by his therapeutic attitude. The student also builds up a vocabulary that will be used in his further day-by-day work.

7.2 Specific objectives:

Learning the skeletal, muscular, vascular, peripheral nervous, digestive, respiratory, excretory and reproductive systems. Interpreting the knowledge from a functional point of view, getting familiar with the notions and processes of the general and special embryology. Acquiescing the regional and applied anatomy of the limb and trunk.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General neuroanatomy. The functional anatomy of the spinal cord.	oral presentation PPT	NA	Malformations of the cardiovascular system. Malformations of the lip and palate. Malformations of the neuraxis. CCT. Degenerative disorders of the neuraxis HIC	2
2	The organization of the ascending systems. The thalamus. The organization of the efferent descending systems. The basal nuclei. The cerebellum	oral presentation PPT	NA	Malformations of the cardiovascular system. Malformations of the lip and palate. Malformations of the neuraxis. CCT. Degenerative disorders of the neuraxis HIC	2
3	The cranial nerves and their nuclei. The anatomy of the trigeminal system.	oral presentation PPT	NA	Disorders of the cranial nerves	2
4	The organization of sensorial systems. The metathalamus.	oral presentation PPT	NA	Impaired vision. Blindness. Deafness	2
5	The cerebral cortex and cortical fields. The limbic system	oral presentation PPT	NA	Aggression. Violence. Psychosexual disorders Depression. Cerebrovascular pathologies. HIC	2
6	The organization of the autonomic nervous system. The hypothalamus	oral presentation PPT	NA	Sleep disorders. Psychosexual disorders	2
7	Application of the knowledge on clinical cases	NA	NA	NA	2
8	The functional anatomy of the pharynx and larynx	oral presentation PPT	NA	Disfagia. Feeding disorders. Cardiac arrest	2
9	The anatomy of the nose, paranasal cavities. Development of the skull base	oral presentation PPT	NA	Infections of the airways.	2

10	The orbital region and its content. The lacrimal apparatus Development of the skull vault and its anomalies	oral presentation PPT	NA	Visual impairment. Blindness. Red eye. HIC. Degenerative disorders of the neuraxis. Diabetes	2
11	The anatomy of the temporal bone. The tympanic cavity	oral presentation PPT	NA	Deafness	2
12	The descriptive anatomy of the TMJ. The infratemporal and pterygopalatine regions	oral presentation PPT	NA	Degenerative disorders of the neuraxis.	2
13	Cephalo-cervical and cervico-thoracic vasculo-nervous passageways	oral presentation PPT	NA	Trauma of the NS	2
14	Application of the knowledge on clinical cases	NA	NA	NA	2
Bibliography 1. Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc - Neuroanatomy. 2. Denes Lorand, Papp Zsuzsanna, Topographical Anatomy of the Head and Neck.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The spinal cord, the brainstem, the fourth ventricle. The cerebellum and the diencephalon.	Ppt presentation, lab specimens	NA	NA	3
2	The basal nuclei and the third ventricle. The the lobes and the surface of the cerebral cortex	Ppt presentation, lab specimens	NA	NA	3
3	The interhemispheric matter and the lateral ventricles. The sectional anatomy of the brain	Ppt presentation, lab specimens	NA	NA	3
4	SEMINAR: The central nervous system practicals: The muscles of the neck. The suboccipital region	Ppt presentation, lab specimens	NA	NA	3
5	The arteries of the neck. The veins and lymphatics of the neck. The omotracheal region. The cervical plexus. The sterno-cleido-mastoid region.	Ppt presentation, lab specimens	NA	NA	3
6	The III., IV. and VI. cranial nerves. The lateral cervical region. The V. cranial nerve. The region of the carotic triangle. The VII., VIII. and IX. cranial nerves. The prevertebral region and the lesser supraclavicular fossa. The X., XI. and XII. cranial nerves. The submental region.	Ppt presentation, lab specimens	NA	NA	3
7	Application of the knowledge on clinical cases	NA	NA	NA	3
8	Descriptive anatomy of the pharynx, larynx and and cervical esophagus. The tongue. SEMINAR: test on the cranial nerves	Ppt presentation, lab specimens	NA	NA	3
9	Muscles of the head, arteries, veins and lymphatics of the head. The submandibular region. The oral and the mental regions	Ppt presentation, lab specimens	NA	NA	3
10	The nasal, the palpebral and zygomatic regions. The retrocapsular compartment of the orbit. The vascular supply of the brain. The epicranial regions. The meningeal sheaths	Ppt presentation, lab specimens	NA	NA	3
11	The region of the inner skull base. The sublingual region. The inner ear.	Ppt presentation, lab specimens	NA	NA	3
12	The topographic anatomy of the TMJ. Masticatory muscles and their relations to the TMJ. The motions of the mandible.	Ppt presentation, lab specimens	NA	NA	3
13	The relations of the maxillary nerve within the pterygopalatine region. . The relations of the mandibular	Ppt presentation, lab specimens	NA	NA	3

	nerve within the infratemporal region. The peripharyngeal spaces				
14	Application of the knowledge on clinical cases overview.	NA	NA	NA	3
Bibliography					
1. Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc - Neuroanatomy.					
2. Denes Lorand, Papp Zsuzsanna, Topographical Anatomy of the Head and Neck.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

NA

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Specific to the discipline	Cranial nerve seminar	15
- practical activities	Specific to the discipline	Brain slides seminar	15
Final evaluation			
- theoretical final exam	Specific to the discipline	Multiple choice quiz	50
- practical final exam	Specific to the discipline	Practical exam	20
Minimal performance standards:			
NA			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Nechifor-Boila Ioan-Alin	15 minutes after each lecture

Head of department

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Năznea Adrian			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 0	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 0		
- other activities: 5		
3.8 Total hours of individual study: 30		
3.9 Total hours: 58		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Videoprojector

6. Specific competencies acquired

6.1 professional competencies:
Studentul va prezenta, la nivel începător-intermediar (A2), următoarele abilități:
-citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu
-înțelegerea mesajelor receptate pe cale auditivă
-vorbirea cu respectarea regulilor gramaticale și de pronunție
-cunoașterea și utilizarea corectă a unui vocabular de bază și semi-specializat
6.2 transversal competencies:
Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale și specifice

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.

7.2 Specific objectives:

La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie, pregătindu-se pentru introducerea limbajului specializat.

8.1 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Casa, încăperi, obiecte de mobilier Baia, obiecte de toaletă	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
2	Anunțuri: inchirierea unui apartament. Verbul: indicativul prezent Descrierea casei sau a apartamentului. Verbul „a plăcea”	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
3	Programul zilnic, igiena personală. Diateza reflexivă, pronumele reflexiv Familia. Adjective și pronume posesive	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
4	Descrierea unui membru din familie. Caracteristici fizice. Gradele de comparație ale adjectivului Mâncare și băutură. Obiecte din bucătărie. Verbele neregulate	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
5	La restaurant. Meniu, obiceiuri culinare Profesii. Abilitați. Verbul: conjunctivul prezent	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
6	Stil de viață. Citește, scrie, învață! Modul imperativ, singular și plural Calități și defecte, hobby-uri. Verbul	Expunerea, rezolvarea unor probleme/PBL, exerciții, conversație; TBL	-	-	4
7	Exerciții. Recapitulare Test de verificare	Rezolvarea unor probleme, conversația, dialogul, munca pe perechi și în grup,	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, C.V., Pascale, L.E., Limba română - manual pentru studenții străini, Ed. Univ. București, 2015
3. Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina, Bun venit în România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
4. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
5. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
6. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
7. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitatea de a intelege si completa exercitii de multiple choice, potrivire, folosirea corecta a vocabularului și a regulilor gramaticale învățate	Testare orală - exercitii de vocabular si gramatica	50
Final evaluation			

- theoretical final exam	-	-	0
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală și scrisă, în mod corect	Verificare orală și scrisă	50
Minimal performance standards: -			

11. Appointment timetable (for students)

Lect dr Năznea Adrian	Miercuri 16-18, sala 37 Clădirea Centrală

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetics			
2.2 Course coordinator: Prof dr Bănescu Claudia-Violeta			
2.3 Practical activities coordinator(s): Alina Boglis, Balla Beata			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 2		
- examinations: 10		
- other activities: 4		
3.8 Total hours of individual study: 72		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular: nu
4.2 competency: nu

5. Conditions

5.1 for lectures: nu
5.2 for practical activities: nu

6. Specific competencies acquired

6.1 professional competencies: Description of basic terms, mechanisms, concepts, and theories of genetics (DNA, RNA, gene, genome, chromosomes, gene expression, variability, recombination, mutations, inheritance patterns) involved in the production of physiological traits and disorders Identification of a genetic disorder, approaches to diagnosis Formulating hypotheses and the correct interpretation of clinical signs and symptoms. Understanding genetic counseling, the role of a medical family tree. Identification of the inheritance mechanism of genetic diseases, estimation of the recurrence risk in genetic diseases. Genetic counseling. Implementing new approaches to the process of diagnosis and management of genetic diseases in relation to knowledge and

technical progress in the field of molecular biology.

Initiation into scientific research activities in the field of genetics

6.2 transversal competencies:

Understanding the need for continuous training in the field of genetics

and molecular biology in the era of genetization of medicine: efficient

use of resources and learning techniques for personal and

professional development, information sources and communication

resources, up-to-date specialized publications in genetic, genetic database.

Understanding and familiarization with the specific roles and activities in the domain of medical genetics in a team of different specialists.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquiring the concepts of medical genetics with applications in dentistry.

7.2 Specific objectives:

Understanding the role of genetic factors in the development of physiological traits and genetic diseases with involvement in the oro-maxillo-facial domain.

Management of the patient and family affected by a genetic disease – from diagnosis to therapy and prevention

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in genetics. Heredity and variation. Human genetics, medical genetics, clinical genetics. Molecular genetics, cytogenetics, classical genetics. The short history of genetics, genome projects. Genetic databases. The role of genetics in disease development. The role of genetics in disease development. Genomic medicine. Primary, secondary and tertiary structure of DNA.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Chromatin and chromosomes. Physical (UV absorption) and chemical characteristics of DNA (denaturation, renaturation, hybridisation). DNA replication	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	The human genome. Non-coding DNA. Repetitive sequences. Transposable elements. The genes: definition, structure, classification, characteristics, gene families	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
4	Gene expression: transcription, mRNA processing, translation. Genetic code. Regulation of gene expression.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Genetic variability. Recombination. DNA lesions. Repair mechanisms. Mutations.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
6	Genetic inheritance mechanisms: Monogenic inheritance. Non-mendelian inheritance.	Oral+multimedia presentation	-	Malformations of lip/palate, chromosomal disorders, Monogenic diseases	2

7	Multifactorial inheritance, Congenital anomalies. Dysmorphology and teratogenesis. Teeth anomalies and oral lesions- genetics	Oral+multimedia presentation	-	Malformations of lip/palate, chromosomal disorders, Monogenic diseases	2
Bibliography Bibliography Mandatory bibliography: 1. Thompson & Thompson Genetics in Medicine, 8th edition. Robert Nussbaum, Roderick McInnes, Huntington Willard. Elsevier, 2016 2. Tom Strachan, Andrew Read. Human Molecular genetics. CRC Press, 2019. ISBN: 9780815345893 Support bibliography: Csép K. Textbook of Genetics – Courses, University of Medicine and Pharmacy Tom Strachan, Andrew Read. Human Molecular genetics. CRC Press, 2019. ISBN: 9780815345893 Medical genetics - power-point presentation					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Human chromosomes. Morphology and classification of metaphase chromosomes. The genetic material in the cell cycle. Errors of distribution of the genetic material during cell division.	Oral presentation, Power Point presentation,	microscopy	Chromosomal disorders	2
2	The human karyotype. Karyotype preparation. Indications of karyotyping.	Oral presentation, Power Point presentation,	individual exercise, karyotyping	Chromosomal disorders	2
3	Mutation of the number of chromosomes (Down, Patau, Turner and Klinefelter syndrome. Structural chromosome mutations. Syndrome produced by structural chromosomal anomalies (Cri du chat, DiGeorge, Prader-Willi syndrome)	Oral presentation, Power Point presentation,	Recognition of different karyotypes, presentation of clinical cases	Chromosomal disorders	2
4	The medical family tree. Symbols used for representing the medical family tree. Patterns of inheritance. Autosomal inheritance	Oral presentation, Power Point presentation,	Problem solving, representation of family tree. Calculation of recurrence risks in the offspring,	Monogenic diseases,	2
5	Patterns of inheritance. X-linked inheritance. Y linked inheritance.	Oral presentation, Power Point presentation,	Problem solving. Calculation of recurrence risks in the offspring	Monogenic diseases,	2
6	Molecular cytogenetics. Principles and methods of molecular analysis: PCR, RFLP, sequencing	Oral presentation, Power Point presentation,	Interpretation of molecular test results	Chromosomal disorders, Monogenic diseases,	2
7	Genetic counselling in oral-maxilar-facial syndromes. Genetic databases.	Oral presentation, Power Point presentation,	Problem solving, Calculation of recurrence risks in the offspring	Chromosomal disorders, Monogenic diseases	2

Bibliography
 Mandatory bibliography:
 Csép K, Bogliș A, Balla B, Bănescu C, Todoran Butilă A, Tripon F. Medical genetics practical activities for students. University Press, Tg Mures. 2021

 Support bibliography:
 Csép Katalin. Genetics Textbook – Practical sessions. University of Medicine and Pharmacy, 2010
 Jones KL, Jones MC, del Campo M. Smith's Recognizable patterns of human malformations. Elsevier, 2013

Thompson & Thompson Genetics in Medicine by Robert L. Nussbaum, Robert Nussbaum & Roderick R. McInnes & Huntington F Willard. 2016, Elsevier

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Recognizing the oro-maxilo-facial disorders produced by genetic factors. Identification of the inheritance mechanism of genetic diseases, and estimation of the recurrence risk in genetic diseases.
Management of the patient and family affected by a genetic disease – from diagnosis to therapy and prevention

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	nu e cazul	-	0
- practical activities	According to the specifics of the domain - efficient use of medical genetics in the clinical practice	individual tests, practical activities	30
Final evaluation			
- theoretical final exam	According to the specifics of the domain - knowledge of theoretical basis of human genetics	Written exam – Test	50
- practical final exam	According to the specifics of the domain - efficient use of medical genetics in the clinical practice	Written exam	20
Minimal performance standards: Basic knowledge of human and medical genetics, 5 at both the theoretical and practical exam. Absences from TBL activities will be graded with 1; there is no possibility to repeat this test, however, the student will have the possibility to take the exam.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bănescu Claudia-Violeta	30 de minute după fiecare curs 30 minute după activitatea practică

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Immunology			
2.2 Course coordinator: Prof dr Dobreanu Minodora			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 1		
- supplemental documentation at the library, from specialized information portals and in the field: 0		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 1		
3.9 Total hours: 15		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: proper hall
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Understanding how the normal and pathological immune system works. Interpretation of the laboratory results acquired during the assessment of the specific and non-specific cellular and humoral immune system. Modern methods of laboratory diagnosis, their qualities and limitations.
6.2 transversal competencies: The Immunology discipline helps the student to integrate prior notions of physiology/pathophysiology and internal medicine, thus establishing useful correlations at the patient's bedside, to recommend and interpret laboratory investigations in the context of clinical data.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The overall objective is to create for the students a logical thinking foundation on how to request and interpret laboratory results.

7.2 Specific objectives:

Highlight the pathogenic mechanisms that cause changes of the laboratory parameters in various diseases, diagnostic value of the laboratory tests, the correlations that can be established between the clinical context and the results provided by the laboratory.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Specific and non-specific, cellular and humoral defense of the organism. The terms of antigen and antibody notions	Lecture+ .ppt presentation	Basic immunological terminology	Immunization, Immunodeficiency	2
2	The lymphoid cells and system. Biological identity of superior organisms– MHC class I and class II	Lecture+ .ppt presentation	The main assays used for evaluation will be introduced	myeloproliferative/ lymphoproliferative disorders, Immunization	2
3	Primary and secondary specific immune response	Lecture+ .ppt presentation	Basic immunological notions will be introduced	Immunization	2
4	Pathological immune reactions. Systemic and organ-related autoimmune disorders	Evaluation during the semester Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations	Allergic conditions, Asthma, Anaphylaxis, Drug reactions, Haemolytic disease in the Rh system, Oedema, connective tissue disorders, multiple sclerosis	2
5	Transplant immunity. Therapeutic tools in immune disorders	Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations	Immunization, Immunodeficiency	2
6	Primary and secondary immunodeficiency syndromes	Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations	Immunodeficiency, HIV	2
7	The immune response in cancer. Immune therapy in tumors	Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations	Immunization, Immunodeficiency	2

Bibliography

1. Roderick Nairn, Matthew Helbert - Immunology for Medical students, Ed. 2, MOSBY- ELSEVIER, 2007
2. Abbas A. - Basic Immunology - Ed.3, Saunders, 2011

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The results provided by the clinical laboratory, indispensable for any doctor - regardless of the specialty, provide 70% of the information necessary for the diagnosis, prognosis / monitoring of patients' health.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Correlation of structural aspects with the functional ones. Presentation of the pathological aspects in the light of normal or modified metabolism.	Evaluation during the semester - 30% of final grade	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Correlation of structural aspects with functional ones. Explaining the pathological aspects in the light of normal or modified metabolism.	Multiple choice test	70
- practical final exam	-	-	0
Minimal performance standards: 1. Cellular elements of non-specific immune system. Phagocytosis. The complement system. 2. Physical, chemical and biological properties of antigens. Superantigens. Allergens 3. Immunoglobulins: structure, properties, coding, biosynthesis. 4. T and B lymphocytes, lymphocyte receptors. Primary and secondary lymphoid tissues. 5. Cellular markers of biological individuality: major histocompatibility complex class I and class II, structure, function 6. Antigen recognition, processing and presentation. Clonal selection and proliferation. Primary and secondary immune response 7. Tumor marker classification/ Classification of tumors. Immune response to neoplasias. Tumor immunotherapy. 8. Types of transplant; histocompatibility; pre-/post-transplant immunological/laboratory assessment of the patient 9. Immune mechanisms involved in graft rejection. Immunomodulation: immunostimulation, immunosuppression. 10. Hereditary and acquired immunodeficiencies. HIV/AIDS infection. 11. Pathologic immune reactions. Gell-Coombs classification; examples of characteristic immune pathology			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Dobreanu Minodora	30 de minute după fiecare curs / activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Clinical, topographic and imaging anatomy			
2.2 Course coordinator: Șef I dr Nechifor-Boila Ioan-Alin			
2.3 Practical activities coordinator(s): Șef I dr Nechifor-Boila Ioan-Alin			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 20		
- tutorial activities: 20		
- examinations: 14		
- other activities: 0		
3.8 Total hours of individual study: 94		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: NA
4.2 competency: basic knowledge in biology, a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion picture
5.2 for practical activities: Preparats, human corpse, digital projector and screen

6. Specific competencies acquired

6.1 professional competencies: Describing and interpreting fundamental notions of the morphology and functioning of the dentomaxillary apparatus, integration of these in concepts/situations meant to apply solutions with the aim of formulating hypotheses and to correctly interpret signs, symptoms and paraclinical modifications for building a morphological and a clinical diagnosis, developing of novel professional competences in the general and the specific dentistic healthcare.

6.2 transversal competencies:

Acquiring skills and techniques which enable identification of objectives to be fulfilled, of resources available, of the conditions to match, of the work phases, of the deadlines and afferent risks according to a minimal standard: implementation of projects under coordination for solving certain problems specific of the field

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The student becomes acquainted with the principles of organization, development and functions of the dentomaxillary apparatus generally, and with the specific human aspects particularly. He becomes able to observe and to anticipate the topographic relations between the components of the human dentomaxillary apparatus and to interpret them in a functional context. The student will gain practical and detailed knowledge about the development of the dentomaxillary apparatus and the oral cavity, parts of the body that yet are to be studied which represent the area of their medical activity. The student will comprehend the interrelations between the various components and will be able to make distinction their variations falling within the normal limits versus the pathological phenomena and will also acquire the ability to communicate about his the observations and share his experience with others.

7.2 Specific objectives:

Learning the functional anatomy of the dentomaxillary apparatus, its components, the phylogenesis and ontogenesis of the face and of the neck, of the regional anatomy, radiologic anatomy, anthropometry and biochronology. From a functional point of view, emphasis is set on the biomechanics of the motions in the TMJ, of the mastication and of the deglutition. The student will be able for a theoretical and a practical orientation in the oral cavity, especially in the entourage of the dentomaxillary arches. He will develop a vision about the shape and content of the oral cavity with a clear notion of the normal within, both morphologically and functionally, which in turn will serve as a reference when the task will be the restoration of normal relations through his therapeutical activity. The student will also develop an appropriate and detailed vocabulary used in all of the branches of the science he has chosen. The acquired knowledge will serve as a basis for the further studies and the specific sciences in dentistry.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Hominization and humanization of the head. Phylogenesis of the dentomaxillary apparatus.	PPT presentation	NA	Oral disorders (incl. Caries)	2
2	Development of the oral cavity and face. Development of the palate. Development of the teeth. Development of the branchial region and derivatives	PPT presentation	NA	Oral disorders (incl. Caries)	2
3	Clinical and topographical anatomy of the oral cavity, of the maxillary sinuses. Anatomy of the periodontium and the alveolar arch. Articulation of the teeth.	PPT presentation	NA	Oral disorders (incl. Caries)	2
4	Clinical and topographical anatomy of the trigeminal nerve	PPT presentation	NA	Oral disorders (incl. Caries)	2
5	Clinical and topographical anatomy of the facial nerve	PPT presentation	NA	Oral disorders (incl. Caries)	2
6	Clinical and topographical anatomy of the temporomandibular joint.	PPT presentation	NA	Oral disorders (incl. Caries)	2
7	Application on clinical cases	NA	NA	Oral disorders (incl. Caries)	2
8	Clinical and topographical anatomy of the arteries and veins designating the head and neck	PPT presentation	NA	Oral disorders (incl. Caries)	2
9	Clinical anatomy of the infratemporal region	PPT presentation	NA	Oral disorders (incl. Caries)	2
10	Clinical and topographical anatomy of the peripharyngeal spaces	PPT	NA	Oral disorders (incl. Caries)	2

11	Clinical anatomy of the pterygo-palatine region	PPT	NA	Oral disorders (incl. Caries)	2
12	Anatomy of the salivation process, the voice and speech	PPT	NA	Oral disorders (incl. Caries)	2
13	Clinical and topographical interactions between the different regions of the head and neck.	PPT	NA	Oral disorders (incl. Caries)	2
14	Application on clinical cases	NA	NA	NA	2
Bibliography 1.Romanes: Cunningham's Practical Anatomy vol I.-II,-III, 2. Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc, Neuroanatomy 3.Sadler: Langman's Embryology					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Orifices of the neurocranium and their content	PPT presentation, lab specimens	NA	Migraine	2
2	The gnathomotor muscles and their relationships	PPT presentation, lab specimens	NA	Osteoarthritis	2
3	Development of the face. Anomalies	PPT presentation, lab specimens	NA	Normal child development	2
4	The anatomy of the cheek. The region of the oral vestibule	PPT presentation, lab specimens	NA	Oral disorders (incl. Caries)	2
5	Anatomy of the tongue and of the floor of the mouth. The Sulcus lateralis linguae. Anatomy of the gum and oral mucosa. The retromolar region.	PPT presentation, lab specimens	NA	Oral disorders (incl. Caries)	2
6	The development of the teeth. Anomalies	PPT presentation, lab specimens	NA	Normal child development	2
7	Application on clinical cases	NA	NA	NA	2
8	TMJ and its entourage.	PPT presentation, lab specimens	NA	Oral disorders (incl. Caries)	2
9	The regional nociceptive innervation of the head and neck. Neuralgic points	PPT presentation, lab specimens	NA	Migraine	2
10	The isthmus of the throat. The amygdalian compartment. The palatine region	PPT presentation, lab specimens	NA	Dysphagia	2
11	Perioral vasculo-nervous passageways. Exo-endocranial vascular anastomoses	PPT presentation, lab specimens	NA	Oral disorders (incl. Caries)	2
12	The pterygomandibular space. The buccal fat pad	PPT presentation, lab specimens	NA	Oral disorders (incl. Caries)	2
13	Cranimetry on isolated bone and in live. Anomalies. Evaluation of cervico-cephalic radiographies, CT and MR imagery	PPT presentation, lab specimens	Oral disorders (incl. Caries)	NA	2
14	Application on clinical cases	NA	NA	NA	2
Bibliography 1.Romanes: Cunningham's Practical Anatomy vol I.-II,-III, 2. Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc, Neuroanatomy 3.Sadler: Langman's Embryology					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

NA

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	In functie de specificul disciplinei	Test nerv trigemen	15
- practical activities	In functie de specificul disciplinei	Seminar	15

Final evaluation			
- theoretical final exam	In functie de specificul disciplinei	Multiple choice test	50
- practical final exam	In functie de specificul disciplinei	Practical exam	20
Minimal performance standards: NA			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Nechifor-Boila Ioan-Alin	15 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physical education
2.2 Course coordinator: -
2.3 Practical activities coordinator(s): Lect dr Steff Zakarias, Șef I dr Țurcanu Dana-Simona, Asist Varodi Ionuț
2.4 Year of study: II 2.5 Semester: 1 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 0	3.3 practical activities: 4
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 0		
- supplemental documentation at the library, from specialized information portals and in the field: 0		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 0		
3.9 Total hours: 28		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.1 curricular: good health - harmonious physical development - adequate physical qualities
4.2 competency:
4.2 competency: Knowledge of techniques learned in high school to develop body strength and physical qualities. - practice of sports (competitive/leisure)

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
5.2 for practical activities: Sport gym, fitness gym, tennis courts, outdoor, swimming pool, football court

6. Specific competencies acquired

6.1 professional competencies:
6.1 professional competencies: - Making use of the information, methods and means specific to physical education and sports in order to optimize health and harmonious physical development - Building the skill of knowledge transmission referring to exercises to develop basic physical skills, qualities and

muscle usage

- Application of specific methods to develop physical qualities

6.2 transversal competencies:

6.2 transversal competencies:

- Application of rule systems specific to the organization and practice of physical education and sports, as well as acquisition and application of adequate behavior in interpersonal relations and in groups

- Using body language to express and understand ideas, feelings, general and physical aesthetics of the body

- Using electronic means to select information regarding elements that are characteristic to physical development

- Active integration into various groups

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.1 General objective:

Systemic and organized practice of physical exercise and favored sports

7.2 Specific objectives:

7.2 Specific objectives:

1) Continuous improvement of healthy condition, physical and mental vigour and harmonious body development ;

2) Raising of the general motricity level and aquirement of basical sport skills;

3) Participating at interuniversity's competitions

8.1 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory lesson ; the requirements of a Physical Education class	explication, demonstration, repetition	-	-	2
2	Athletics – the school of running	explication, demonstration, repetition	-	-	2
3	Basketball – checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
4	Volleyball - checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
5	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
6	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
7	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
8	Athletics – developing leg strength with different jumping exercises	explication, demonstration, repetition	-	-	2
9	Basketball - repeat the dribbling, ball catching and passing	explication, demonstration, repetition	-	-	2
10	Swimming – teaching the basic elements	explication, demonstration, repetition	-	-	2
11	Aquagym	explication, demonstration, repetition	-	-	2
12	The testing contain two tests which targets the physically skills, as long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.),	activity evaluation	-	-	2

	speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming				
13	Testing the students who were absent at the tests	activity evaluation	-	-	2
14	End of school year, conclusion of the school report; recommendations for the sporting activity during the holidays.	conclusion	-	-	2

Bibliography

1. Badau D., Tanase T. → Volei, teorie si metodica, Ed. OMNIA, Brasov, 2006
2. Carstea G. → Teoria si metodica educatiei fizice, Ed. An-Da, Bucuresti, 2000
3. Hantiu I. → Teoria educatiei fizice si sportului, note de curs, Univ. Oradea, 2012
4. Macovei S. → Stretching, Ed AFIS, Bucuresti, 2012
5. Neagu N → Teoria si practica activitati motrice umane, Ed. University Press, Tg. Mures, 2010
6. Filipescu, D., Gherghisan, D., Bologa, M., → Educație fizică în învățământul superior medical, Editura UMF, 2001
7. Badau D. → Metodica disciplinei sportive → handbal, Ed. Universitatii Transilvania din Brasov, 2009
8. Badau A, Ungur R, Badau D. – Activitatile fizice acvatice indoor, Ed, Universitatii Transilvania Brasov, 2016

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Development of the capacity to choose healthy life-style, by practicing sports, combining physical exercise with intellectual efforts, motion and rest, work and leisure.
- Availability to practice physical exercise independently
- Constant interest in sports as a phenomenon

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	the attendance on the lessons - control test of the 1st semester - control test for 2nd semester	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	100
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	0
Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in			

domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)

11. Appointment timetable (for students)

Lect dr Steff Zakarias	Luni 18-20
Şef I dr Turcanu Dana-Simona	Turcanu Dana Simona - Wednesday 14-16
Asist Varodi Ionuț	Vineri 18-20

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): Șef lucrări dr. Borș Andreea			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 35		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 10		
- examinations: 6		
- other activities: 0		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
English language examination certificate (B2 or C1).

5. Conditions

5.1 for lectures:
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
Laboratory with work tables, instruments, equipment, etc. necessary for preparing different dental materials used in dental offices and laboratories, presented at the course.

6. Specific competencies acquired

6.1 professional competencies:
- The student, in addition to acquiring dental materials handling technique, will know their composition, physical, mechanical, chemical properties in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice.
-The student will know the possibilities for time resistance, good storage and keeping mode of the dental materials, the risks of inhaling chemicals used to manufacture prosthetic restorations, the biocompatibility of dental materials.
-The future dentist should provide technical and material supplies in dental offices, sometimes of the dental

laboratory too, so he or she has to know how to choose the right material from different dental materials on the market, he or she has to know which is the best and most suitable material and he or she has to identify especially the material that matches the requirements and demands of the patient, ensuring the optimum conditions to comply with the international norms.

6.2 transversal competencies:

- Cooperation and teamwork is today a complex element, requiring a permanent academic training. The student realizes that the professional activity he or she will perform it is a team work, the human factor being represented by: dentist, dental assistant and dental technician who must ensure the health and safety at work and the usage of modern technologies.
- Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice.
- The marketing and management of dental offices and dental laboratories through the knowledge of the current dental materials and the knowledge of equipping modern dental laboratories.
- Didactic activity in practical instruction or administration in the field of dental materials used in various fields of dentistry.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

To acquire the necessary knowledge for the proper and efficient use of materials in dental practice within prosthetic restorations (C4), conservative therapy (C2) and dental prophylaxis.

7.2 Specific objectives:

- To acquire the ability to understand different aspects of composition and properties of dental materials which have implications in dental practice.
- Application of theoretical knowledge in the use of dental materials in dental practice.
- Learning the techniques of preparation and handling of dental materials used in the dental office and the dental laboratory.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification, properties and requirements of dental materials. Generalities. Basic terminology.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
2	General and basic information about dental materials. Rigid and semi-rigid impression materials. Thermoplastic and buccoplastic impression materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
3	Elastic impression materials: reversible and irreversible hydrocolloids.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
4	Elastic impression materials: elastomers. Disinfection of impressions. Optical impression.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
5	Non-metallic dental restorative materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
6	Materials used for pulp- and dentine protection and cavity base materials. Dental adhesive systems.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
7	Dental luting cements. Temporary restoration materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
8	Dental materials for direct restorations. Dental amalgams.	Test. Oral+multimedia presentation	Evaluation (5% of final grade).	-	2

9	Laboratory dental materials: generalities, terminology. Dental materials for models and dies.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
10	Materials used to construct patterns.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
11	Materials for dental prosthetics: metals and alloys.	Test. Oral+multimedia presentation	Evaluation (5% of final grade).	-	2
12	Materials for dental prosthetics: synthetic polymers, acrylic resin.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
13	Materials for dental prosthetics: dental ceramic materials and zirconia.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
14	Materials used to construct moulds: investment materials. Biocompatibility of dental materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
Bibliography Bibliography References (compulsory): 1. 'Dental Materials' on BlackBoard and E-learning Platform, Website of the UMFST G.E. Palade of Tg.Mures 2. Schmalz G., Arenholt-Bindslev D.: Biocompatibility of Dental Materials. Springer-Verlag Berlin, Heidelberg, 2009. 3. Székely M., Borş A., Molnar-Varlam Cristina: Dental Materials – Course for Students. University Press, UMFST Tg.Mureş, 2019. References (facultative): 1. McCabe J.F., Walls A.W.G.: Applied Dental Materials. Editura Blackwell Science, Oxford, 1998. 2. Von Fraunhofer J.A.: Dental Materials at a Glance. Wiley-Blackwell Publishing, Oxford, 2010.					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the department, inner rules and evaluation methods. Rules of the workplace safety are presented, too.	Orally and written.	Students sign to confirm that they were informed.	-	4
2	Preparation techniques of rigid and semi-rigid impression materials. Impression trays.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
3	Preparation techniques of thermoplastic and buccoplastic impression materials.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
4	Preparation techniques of elastic impression materials: reversible and irreversible hydrocolloids. Hydroalginic impression.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
5	Preparation techniques of elastic impression materials. Combined impression techniques.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
6	Preparation techniques of classical dental cements. Practical knowledge assessment by test.	Practical demonstration and individual preparation. Test	4 hours, Laboratory Report + grade	-	4
7	Preparation techniques of modern dental cements.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
8	Preparation techniques of polymerizable materials: acrylates, composites.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
9	Preparation of Ag and Cu containing dental amalgams. Practical	Practical demonstration and individual preparation. Test	4 hours, Laboratory Report + grade	-	4

	knowledge assessment by test.				
10	Preparation and handling of dental cast materials.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
11	Handling techniques of materials used for patterns, investments and casting.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
12	Handling techniques of materials used for dental prosthetics: polymers.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
13	Handling techniques of materials used for dental prosthetics: dental ceramics and alloys.	Multimedia presentation.	4 hours, Laboratory Report	-	4
14	Recapitulation. Knowledge assessment by seminar.	Oral+multimedia+seminar	4 hours, Laboratory Report + grade	-	4

Bibliography

Reference:

1. Molnar-Varlam C.: Ghid practic de utilizare a materialelor dentare. Editura University Press, Târgu-Mureș, 2011.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Dental materials science has been recorded an explosion of news that gave rise to new technologies that have to be known and applied by dental health professionals. Critical applying of dental materials in practice appeared after the dynamic development of modern techniques constantly changing and developing which represents a leading European requirement.

-The dentists must correctly handle the materials they work with, must know the properties and possibilities of their resistance over time, the changes that they can produce, and the effects on the human body.

-The dentist should be able to select the material that best suits to the given clinical situation, which meets the requirements of the patient, but that would be durable and cost effective.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge. Attendance to lectures according to the Regulations of the Discipline.	Grade obtained on test individually.	10
- practical activities	Practical knowledge related to theoretical knowledge.	Laboratory Report (grades for practical works, and also for the complete laboratory report and presence) and tests through summative evaluation.	20
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Exam test – multiple choice + short redactional questions.	50
- practical final exam	Practical knowledge and skills joint with theory.	Practical exam including response to a question.	20
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials, to have no more than 20% unjustified or unrecovered absences from practical work and lectures, to prepare and manipulate the most representative materials used in the dental office and dental laboratory, respectively.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	30 min. after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
ROMÂNIA
UNIVERSITATEA DE MEDICINĂ,
FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Microbiology - Bacteriology			
2.2 Course coordinator: Șef I dr Ciurea Cristina-Nicoleta			
2.3 Practical activities coordinator(s): Dr. Vintila Camelia			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 1		
- examinations: 2		
- other activities: 1		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
1. Suspicion/recognition of etiology in bacterial infections
• Proper requesting of microbiological analyses required for diagnosis
• Understanding of bacteriological test results and their appropriate use in the patient's treatment
• Understanding of correct habits on judicious use of antimicrobials, based on the antimicrobial resistance
• Knowledge of normal mouth bacterial flora
• Knowledge of cariogenic and periodontal-pathogenic bacteria
• Knowledge of the mechanisms by which bacteria cause the disease in the oral cavity
2) Knowledge and understanding of the concepts, basic theories, and methods of the specific area of

specialization. Designing and deepening basic knowledge in dental medicine, with general medical coverage

- Knowledge of nature and metabolic activity of microorganisms that can contaminate surfaces and dental instruments in the dental cabinet

- Paying particular attention to microbiological and hygienic-sanitary control in various stages of treatment in dental offices, to prevent microbial contamination, to comply with the microbiological standards

- Defining the principles of human antibiotherapy and specific decontamination. Learning decontamination procedures (asepsis, disinfection, sterilization, and antisepsis)

- Using the basic knowledge for explanation and interpretation of various types of concepts, situations, processes, projects, etc. associated with the microbiological field

3) The students will acquire skills regarding the applicability of decontamination methods, techniques for harvesting biological samples and pathological products, and diagnostic methods in bacteriology, parasitology, and virology.

4) The student will own theoretical knowledge related to infectious diseases, the causative agents of infectious diseases (structure, habitat, pathogenicity factors, etiology, etc.), the specific manifestations of maxilla-facial area, prevention, and treatment.

6.2 transversal competencies:

- Oral and written communication skills
- Teamwork abilities
- Development of professional and ethical values
- Solving clinical situations and taking correct therapeutic decisions
- Responsible and fair execution of professional duties

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

To acquire knowledge about microbial biology, bacterial pathogenesis, and the prevention and treatment of bacterial infections.

7.2 Specific objectives:

Knowledge about:

- Morphology, physiology, and bacterial genetics
- The means by which bacteria cause disease
- The role of the immune system in the defense against bacterial infections
- The diagnostic procedures used in bacterial infections
- Factors that might influence the laboratory results
- The main indications for bacteriological diagnosis
- The mechanisms by which antimicrobial substances exert their effect and the mechanisms by which bacteria develop resistance to antibiotics
- Basic principles of immunization
- Bacteria involved in important human infections (morphology, caused diseases, pathogenesis, immunity, mode of transmission, prevention, and treatment)
- The normal flora of the human body
- The terms of colonization, infection, and carriage
- The major medical problems caused by bacteria: factors that lead to the emergence and spread of antimicrobial resistance
- Nosocomial infections, infections of immunosuppressed patients,
- Bioterrorism
- The mechanisms involved in dental caries, periodontal diseases

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History of microbiology. The object and purpose of medical microbiology. Bacterial morphology.	Oral presentations. PPT	-	structure of microorganisms	2
2	The structure of the bacteria. The chemical composition of the	Oral presentations.	-	Structure of microorganisms Antimicrobial therapy	2

	bacteria. Bacterial metabolism. The growth and multiplication of bacteria. Activity of physical, chemical and biological agents(antibiotics, bacteriocins, bacteriophage) on bacteria.	PPT			
3	Pathogenesis of bacterial infections. Host defense mechanisms. Prevention of infectious diseases.	Oral presentations. PPT	-	immunisation immunodeficiency infection	2
4	Classification and nomenclature of bacteria. Gram-positive cocci(Staphylococcus, Streptococcus, Enterococcus). Gram-negative cocci (Neisseria meningitidis and Neisseria gonorrhoeae).	Oral presentations. PPT	-	Bullous/vesicular skin eruption, Loose stools, Vaginal discharge, Cardiac valve disease, Chronic renal disease, Endocarditis, Gastroenteritis Infectious disease of childhood, meningitis, Oral disorders (incl. Caries), Otitis media, Respiratory tract infection, Septicaemia, Skin infections/infestations, Urinary tract infection, Disorders of pregnancy and deliver, Sexually transmitted diseases, Pregnancy loss	2
5	Gram-positive aerobic rods: Genus Corynebacterium. Genus Bacillus. Gram-negative aerobic, facultative anaerobic bacteria: Enteric pathogens: Escherichia, Shigella, Salmonella, Yersinia, Klebsiella, Proteus.	Oral presentations. PPT	-	Gastroenteritis, Loose stools, peritonitis, Respiratory tract infection, Urinary tract infection, Skin infections/infestations	2
6	Curved Gram-negative bacteria: Genus Vibrio. Genus Campylobacter. Genus Helicobacter. Non-fermentative, aerobes, Gram-negative bacilli: Pseudomonas aeruginosa. Gram-negative coco-bacilli: Haemophilus influenzae	Oral presentations. PPT	-	Loose stools, Vomiting, Acid based disturbance, Burns, Carcinoma of the stomach Cystic fibrosis, gastroenteritis, Peptic ulcer, peritonitis, Skin infections/infestations meningitis, Respiratory tract infection, septicemia	2
7	Spore-forming Gram-positive, anaerobic bacteria(Clostridium). Non-spore-forming anaerobic bacteria	Oral presentations. PPT	-	Constipation, Dysphagia, Visual impairment, acne, Oral disorders (incl. Caries), Peripheral nerve disorders, peritonitis, septicemia	2
8	Bacteria that are not classified as Gram: Mycobacterium genus. Spirochetes: Treponema pallidum. Borrelia burgdorferi	Oral presentations. PPT	-	Haemoptysis, meningitis, Peripheral nerve disorders, Sexually transmitted diseases, tuberculosis, Urinary tract infection	2
9	Normal flora of the human body. Normal flora of the oral cavity.	Oral presentations. PPT	-	Normal flora	2
10	Oral ecosystem. Characteristics of dental plaque biofilm.	Oral presentations. PPT	-	Normal flora	2
11	Microflora involved in periodontal disease	Oral presentations. PPT	-	Oral disorders (incl. Caries)	2
12	Microbial flora involved in dental caries	Oral presentations. PPT	-	Oral disorders (incl. Caries)	2
13	Etiology of dentoalveolar infections.	Oral presentations. PPT	-	Oral disorders (incl. Caries)	2
14	Etiology of infections of the mouth and salivary glands.	Oral presentations. PPT	-	Oral disorders (incl. Caries)	2

Bibliography

. Brooks G.F., Butel, J. S., Morse, S.A.: Jawetz, Melnick, Adelberg's

Medical

Microbiology, McGraw-Hill Medical, New York, 25th edition. 2010

2. Fritz H. Kayser, Kurt A. Bienz, Johannes Eckert, Rolf M. Zinkernagel:

Medical Microbiology. Georg Thieme Verlag, Stuttgart, 2005

3. Winn W, Allen S, Janda W, Koneman E, Procop G, Schreckenberger P, Woods G: Koneman's Color Atlas and Textbook of Diagnostic Microbiology.

Lippincott Williams & Wilkins, Philadelphia, 6th edition, 2006

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Labor safety in the laboratory. Decontamination. The bacteriological diagnosis scheme. The harvesting and transport of pathological samples	Practical activities, oral presentation	-	Decontamination, disinfection, antisepsis, asepsis, sterilisation	2
2	Study of the bacterial morphology. Wet mount. Smears. Simple and Gram staining. Ziehl-Neelsen staining. Neisser staining.	Practical activities, oral presentation	-	Structure of microorganisms	2
3	The cultivation of microorganisms. Culture media. Methods of seeding. Macroscopic aspects of bacterial culture. Bacterial identification based on biochemical and metabolism characteristics.	Practical activities, oral presentation	-	Identification of microorganisms	2
4	Identification of the bacteria by their antigenic structure: agglutination, ELISA, IF. Intradermic reactions. Detection of nucleic acids - hybridization, gene amplification. Bacterial typing. Bacterial pathogenicity testing in vitro and in vivo (experimental disease). Antibiotic susceptibility testing - Antibigram	Practical activities, oral presentation	-	Identification of microorganisms Antibiogram	2
5	Practical exam	Practical exam	-	-	2
6	Laboratory diagnosis of infections caused by Staphylococcus, Streptococcus, Enterococcus, Neisseria.	Practical activities, oral presentation	-	Bullous/vesicular skin eruption, Loose stools, Vaginal discharge, Cardiac valve disease, Chronic renal disease, endocarditis, gastroenteritis, Infectious disease of childhood, meningitis, Oral disorders (incl. Caries), otitis media, respiratory tract infection, septicemia, Skin infections/infestations, Urinary tract infection, Disorders of pregnancy and delivery, Sexually transmitted diseases, Skin infections/infestations, Pregnancy loss	2
7	Laboratory diagnosis of infections caused by enterobacteriaceae: Escherichia, Klebsiella, Proteus, Shigella, Salmonella, Yersinia. Laboratory diagnosis of infections caused by Vibrio, Helicobacter, Campylobacter.	Practical activities, oral presentation	-	gastroenteritis, Loose stools, peritonitis, Respiratory tract infection, Urinary tract infection, Skin infections/infestations	2
8	Laboratory diagnosis of infections caused by Pseudomonas, Treponema, Mycobacterium, Clostridium.	Practical activities,	-	Constipation, Dysphagia, Visual impairment, acne, Oral disorders (incl. Caries), Peripheral nerve	2

		oral presentation		disorders, peritonitis, septicemia Haemoptysis, meningitis, Sexually transmitted diseases, tuberculosis, Urinary tract infection, Respiratory tract infection, Skin infections/infestations	
9	Laboratory diagnosis of infections caused by endogenous anaerobic bacteria.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
10	Normal flora of the oral cavity. Quantitative assessment of lactobacilli in the mouth.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
11	Antimicrobial activity of dental materials and toothpaste.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
12	Microbial flora in periodontitis. Microbiology of dental caries.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
13	Review	Practical activities, oral presentation	-	-	2
14	Practical exam	Practical exam	-	-	2
Bibliography 1. Adrian Man, Anca Mare, Felicia Toma. Atlas de bacteriologie. University Press. 2019;213 pag. ISBN: 978-973-169-612-6 2. https://microbiologie.umfst.ro					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By studying microbiology, students from the Dental Medicine Faculty understand the basic information about infections, including the route of transmission of the most important pathogens and the involvement of microorganisms in human disease. This serves to better prophylactic measures in their future practice.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge about the presented pathogens	TBL	10
- practical activities	Knowledge on microbiology diagnostic principles and antimicrobial therapy	Seminar	20
Final evaluation			
- theoretical final exam	Knowledge about the presented pathogens	test	60
- practical final exam	Knowledge about the presented pathogens	practical final exam	10
Minimal performance standards: Minimum passing grade during the semester's practical assessments - minimum 5 Minimum conditions for admission to final examination - grade 5 assessment during the seminars - 100% presence at practical classes - to promote the final evaluation - grade 5 (both for theory and practical exams)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Ciurea Cristina-Nicoleta	30 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Morphopathology			
2.2 Course coordinator: Șef I dr Baniás Laura			
2.3 Practical activities coordinator(s): Șef I dr Baniás Laura			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week:	3.2 lecture: 4/2	3.3 practical activities: 4/2
3.4 Total hours in curriculum: 84	3.5 lectures: 42	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 41		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
English language certificate - Profex level C1

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Understanding the basic pathological aspects of the main lesions of the human body.
6.2 transversal competencies: The interactive collaboration of the student with the didactic staff.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Understanding the basis of the pathological processes and adapting them to systemic and oral pathology.

7.2 Specific objectives:

Knowing the basic morphological and clinical disorders.

Understanding the morphological changes in different disorders (micro- and macroscopic aspects).

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Disorders of circulation - part 1	PowerPoint presentation	-	Cerebrovascular disease, Pleural effusion, Peripheral vascular disease, Thromboembolic disease, Coagulation disease, Shock, Varicose veins, Oedema	2
2	Disorders of circulation - part 2	PowerPoint presentation	-	Cerebrovascular disease, Pleural effusion, Peripheral vascular disease, Thromboembolic disease, Coagulation disease, Shock, Varicose veins, Oedema	2
3	Disorders of cell and tissue metabolism, disorders of cellular proliferation and differentiation	PowerPoint presentation	-	Hypoglycaemia, Encephalopathy, Inborn errors of metabolism, Drug reactions, Electrolyte and water balance, Disorders of uric acid metabolism, Cystic fibrosis, Disorders of calcium and vitamin D metabolism, Disorders of lipid metabolism	2
4	Inflammation - part 1	PowerPoint presentation	-	asthma, allergic disorders, Immunisation, Tuberculosis, Immunodeficiency, HIV	2
5	Inflammation - part 2	PowerPoint presentation	-	asthma, allergic disorders, Immunisation, Tuberculosis, Immunodeficiency, HIV	2
6	Tumors - part 1	PowerPoint presentation	-	Bone malignancy, skin cancer, childhood tumors, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
7	Tumors - part 2	PowerPoint presentation	Test - multiple-choice questions	Bone malignancy, skin cancer, childhood tumors, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
8	Pathology of the cardiovascular system	PowerPoint presentation	-	Aortic aneurysm, Thromboembolic disease, Peripheral vascular disease, Varicose veins, Sexually transmitted diseases	2
9	Pathology of the cardiovascular system	PowerPoint presentation	-	Malformations of cardiovascular system, Cardiorespiratory arrest, Ischemic heart disease, Endocarditis, Chest pain	2
10	Pathology of the respiratory system	PowerPoint presentation	-	Otitis media, Pneumothorax, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease, Carcinoma of the bronchus, Asthma	2
11	Pathology of the respiratory system	PowerPoint presentation	-	Otitis media, Pneumothorax, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease, Carcinoma of the bronchus, Asthma	2
12	Oral and maxillofacial	PowerPoint	-	Oral disorders (incl. Caries)	2

	pathology	presentation			
13	Oral and maxillofacial pathology	PowerPoint presentation	-	Otitis media	2
14	Oral and maxillofacial pathology	PowerPoint presentation	-	Malformations of lip/palate	2
15	Oral and maxillofacial pathology	PowerPoint presentation	-	Osteomyelitis	2
16	Oral and maxillofacial pathology	PowerPoint presentation	-	Carcinoma of head and neck	2
17	Pathology of the gastrointestinal tract	PowerPoint presentation	-	Carcinoma of the oesophagus, Peptic ulcer, Gastroenteritis, Carcinoma of the stomach, Inflammatory bowel disease, Appendicitis, Carcinoma of the colon and rectum, Intestinal obstruction, Peritonitis, Diverticular disease, Hernia	2
18	Pathology of the liver, gallbladder, and pancreas	PowerPoint presentation	-	Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas	2
19	Pathology of the kidney and urinary tract	PowerPoint presentation	-	Chronic renal disease, Carcinoma of the kidney and bladder	2
20	Pathology of the female genital system and pathology of the breast	PowerPoint presentation	-	Carcinoma of the cervix/uterus/ovary, Infertility, carcinoma of the breast	2
21	Pathology of the male genital system	PowerPoint presentation	-	Pathology of the male genital system	2

Bibliography

1. Powerpoint presentations.

2. Kumar V, Abbas AK, Aster JC. Robbins Basic Pathology. 10th ed. New York, Elsevier 2018.

3. Gurzu S, Jung I. Patologie specială pentru studenții Facultății de Asistență Medicală. University Press Tîrgu Mureș 2014. ISBN 978-973-169-312-5.

4. Gurzu S, Jung I. Patologie generală pentru studenții Facultății de Asistență Medicală. University Press Tîrgu Mureș 2013. ISBN 978-973-169-214-2.

5. Gurzu S, Jung I, Turdean S. Patologie stomatologică/Dental pathology - Ed. University Press 2018, ISBN: 78-973-169-520-4.

6. Baniar L, Jung I, Gurzu S. PATOLOGIE GENERALĂ pentru studenții facultății de medicină dentară / GENERAL PATHOLOGY

for dental medicine students. University Press Tîrgu Mureș 2020. ISBN 978-973-169-668-3.

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Disorders of circulation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Oedema, Thromboembolic disease, Chronic liver disease, Shock, Cerebrovascular disease	2
2	Disorders of cell and tissue metabolism	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Gall bladder disease, Dysuria, Disorders of lipid metabolism, Chronic renal disease, Urinary tract obstruction, Disorders of prostate, Disorders of uric acid metabolism, Joint swelling	2
3	Inflammation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Respiratory tract infection, Pericardial disease, Septicaemia, Meningitis	2
4	Inflammation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and	-	Tuberculosis, Lymphadenopathy	2

		microscopic demonstrations (scanned slides).			
5	Tumors	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Breast lump, Menstrual disorders, Drug reactions	2
6	Tumors	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Skin cancer, Skin ulcerations, Carcinoma of the bronchus, Breathlessness, Haemoptysis, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
7	Malformations	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Malformations of spine/CNS-central nervous system, Malformations of cardiovascular system	2
8	Pathology of the cardiovascular system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Cardiorespiratory arrest, Ischemic heart disease, Endocarditis, Chest pain	2
9	Pathology of the cardiovascular system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Aortic aneurysm, Thromboembolic disease, Peripheral vascular disease, Varicose veins, Sexually transmitted diseases	2
10	Pathology of the respiratory system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Tuberculosis, Chronic bronchitis and emphysema, Chronic lung disease	2
11	Pathology of the respiratory system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the bronchus, Respiratory tract infection	2
12	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of head and neck, Malformations of lip/palate, Oral disorders (incl. Caries)	2
13	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Inflammatory bowel disease, Carcinoma of the stomach	2
14	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas	2

15	Pathology of the kidney, urinary tract, and male genital system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Chronic renal disease, Carcinoma of the kidney and bladder	2
16	Pathology of the kidney, urinary tract, and male genital system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Disorders of prostate	2
17	Pathology of the female genital system and pathology of the breast	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the cervix/uterus/ovary	2
18	Pathology of the female genital system and pathology of the breast	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	carcinoma of the breast, Breast lump	2
19	Pathology of the endocrine, nervous and locomotor systems	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Thyroid disorders	2
20	Pathology of the endocrine, nervous and locomotor systems	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Brain tumor, Bone malignancy	2
21	Revision	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the cervix/uterus/ovary, Chronic renal disease, Carcinoma of the kidney and bladder, Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas, Thyroid disorders ...	2

Bibliography

Bibliography

1. Gurzu Simona, Jung Ioan. Introduction in histopathology. Ed - University Press, 2012.
2. Gurzu Simona, Jung Ioan, Sabin Turdean. Patologie stomatologică/Dental pathology - Ed. University Press 2018, ISBN: 78-973-169-520-4.
3. Powerpoint presentations.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The dental medical student should understand, in his preclinical activity, the basic aspects related to the macro- and microscopical features of the main diseases encountered in the daily diagnosis. The students' familiarization with the importance of medical know-how is also mandatory.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Level of knowledge regarding the general morphological aspect of basic lesions.	Multiple-choice question-based evaluation.	20

- practical activities	Recognition and description of various tissues and organs with different pathologies, on both microscopic slides and jars with organs immersed in formalin.	Oral/written exam regarding the macro- and microscopic specimens studied during the 1st module.	15
Final evaluation			
- theoretical final exam	Level of knowledge regarding the morphological aspect of lesions, correlated with the clinical impact.	Written exam containing multiple-choice questions, organized according to the university's rules.	50
- practical final exam	Recognition and description of various tissues and organs with different pathologies, on both microscopic slides and jars with organs immersed in formalin.	Oral/written exam regarding the macro- and microscopic specimens studied during the 2nd module.	15
Minimal performance standards: Basic knowledge about the main pathological processes of the human body – 1st module Knowing the main aspects of systemic and oral pathology – 2nd module According to departments' rules and regulations.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Baniş Laura	30 minutes after each lecture/practical activity.

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language (2)			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Lakó Cristian			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 0	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 1		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Romanian language (2)
4.2 competency: Romanian Language - Elementary

5. Conditions

5.1 for lectures: -
5.2 for practical activities: manual

6. Specific competencies acquired

6.1 professional competencies: Studentul va prezenta, la nivel începător-intermediar (A2), următoarele abilități: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbierea cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază și semi-specializat
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale și specifice

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.

7.2 Specific objectives:

La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie, pregătindu-se pentru introducerea limbajului specializat.

8.1 Content of seminar, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Alfabetul, particularitati ale scrierii in limba romana	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Casa, încăperi, mobilier, activități	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Activități pentru timpul liber	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Mâncăruri și băuturi	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	La cumpărături	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Vacanțe	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	O zi din viața mea	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4

Bibliography

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, C.V., Pascale, L.E., Limba română - manual pentru studenții străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit in România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog medic-pacient	30
Final evaluation			
- theoretical final exam	Abilitatea de a intelege si completa exercitii de multiple choice, potrivire, folosirea corecta a numarului, articolului verbelor invatate	Test scris care cuprinde exercitii de vocabular si gramatica	40
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog medic-pacient	30

Minimal performance standards:

Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și

cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.

11. Appointment timetable (for students)

Lect dr Lakó Cristian	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiopathology
2.2 Course coordinator: Șef I dr Gliga Florina-Ioana
2.3 Practical activities coordinator(s): Șef lucrari dr Corina Budin, Asist univ drd Bianca Kosovski,
2.4 Year of study: II 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 19		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular: nu este cazul
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: nu este cazul
5.2 for practical activities: nu este cazul

6. Specific competencies acquired

6.1 professional competencies: Identification in terms of efficiency and effectiveness of general health care needs, and treatment. • Description of functioning of human body and the general mechanisms of disease production. • Getting Integrating concepts / situations that apply to the human body in order to explain signs and symptoms. • Establishing treatment needs imposed by the existence of signs and symptoms of disease. • The practical importance of pathophysiology for understanding the of medical disciplines. • Using the acquired notions in scientific research. • Achieving a work / essay / case presentation - identifying targets.

6.2 transversal competencies:

- Identify objectives to be achieved, the resources available, their closing conditions, work flow, working time, deadlines and related risks.
- Identifying roles and responsibilities in a multidisciplinary team and applying effective techniques and working relationships within the team and the relationship with the patient.
- Effective use of information sources and communication resources and training to assist (Internet portals, specialized software, databases, online courses, etc.)

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Presentation of the mechanisms of diseases which are important for the dental doctors in direct relation with their specific activity.

7.2 Specific objectives:

Presentation of the etiopathology and pathophysiological mechanisms in general and special pathophysiology of the body systems.

Explaining the mechanisms of action of pharmacological substances from the pathophysiological point of view.

Theoretical and practical skills for positive and differential diagnosis in clinical conditions.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in pathophysiology. The concept of normal and disease. Tissue injury.	Oral presentation and multimedia	-	Aggression.Oral disorders (incl. Caries)	2
2	Pathophysiology of body's defense systems. Inflammatory syndrome. Infectious syndrome. Particularities of the oral cavity	Oral presentation and multimedia	-	Immunodeficiency.Infectious disease.Lymphadenopathy	2
3	Pathophysiology of fever. Particularities of the oral cavity.	Oral presentation and multimedia	-	PUO-pyrexia of unknown origin	2
4	Pathophysiology of pain. Applications in dental medicine.	Oral presentation and multimedia	-	Migraine.Headache	2
5	Pathophysiology of blood. Erythrocyte series and leukocyte series. Particularities of the oral cavity.	Oral presentation and multimedia	-	Anemia	2
6	Pathophysiology of blood. Hemostasis. Clotting disorders. Particularities of the oral cavity.	Oral presentation and multimedia	-	Coagulation disease	2
7	Pathophysiology of the acid-base balance and of the hydro-electrolytic balance. Applications in dental medicine.	Oral presentation and multimedia	-	Electrolyte and water balance	2
8	Pathophysiology of the cardiovascular system. Atherosclerosis. Hypertension.Applications in dental medicine.	Oral presentation and multimedia	-	Hypertension. Disorders of lipid metabolism	2

9	Cardiac diseases. Cardiac arrhythmia. Applications in dental medicine.	Oral presentation and multimedia	-	Cardiac conduction/rhythm disorder	2
10	Pathophysiology of the respiratory system. Applications in dental medicine.	Oral presentation and multimedia	-	Chronic bronchitis and emphysema. Respiratory tract infection. Asthma.	2
11	Pathophysiology of the digestive tract. Particularities of the oral cavity.	Oral presentation and multimedia	-	Dysphagia. Malabsorption. Peptic ulcer	2
12	Pathophysiology of nutrition and metabolic diseases. Particularities of the oral cavity.	Oral presentation and multimedia	-	Diabetes mellitus. Hypoglycaemia. Malnutrition	2
13	Pathophysiology of the endocrine system. Applications in dental medicine	Oral presentation and multimedia	-	Thyroid disorders. Pituitary disorders	2
14	Pathophysiology of the urinary system. Applications in dental medicine.	Oral presentation and multimedia	-	Chronic renal disease. Urinary tract infection.	2

Bibliography

1. Goldman-Cecil Medicine, Twenty Sixth Edition, Elsevier, 2019
2. Essentials of Pathophysiology: Concepts of Altered Health States, Carol Mattson Porth, second edition, Lippincott William Wilkins, 2006
3. Paulev Poul-Erik, Textbook in Medical Physiology and Pathophysiology, Copenhagen Medical Publishers, 2000 Springhouse,
4. Professional guide to pathophysiology 2ed, Ed. Lippincott Williams and Wilkins, 2006
5. Bacărea Anca, Pathophysiology, Lecture guide, University Press Tîrgu Mureş, 2014
6. Robbins Basic Pathology, Tenth Edition, Elsevier, 2020.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Protection rules in the pathophysiology laboratory. Practical applications of the pathophysiology of inflammation in dental medicine.	Lab practical activities, PPT presentation, discussions	-	-	2
2	Practical applications of the pathophysiology of inflammation in dental medicine	Lab practical applications, debates, CBL	-	Oral disorders (incl. Caries)	2
3	Practical applications of the pathophysiology of leukocyte series in dental medicine.	Lab practical applications, debates, CBL	-	Immunodeficiency	2
4	Practical applications of the pathophysiology of erythrocyte series in dental medicine. Exploring anemic syndrome. Polycythemia	Lab practical applications, debates, CBL	-	Anemia	2
5	Practical applications of the pathophysiology of hemostasis in dental medicine.	Lab practical applications, debates, CBL	-	Coagulation disease	2
6	Electrolyte disturbances. Correlations between signs and lab tests based on pathophysiological mechanisms.	Lab practical applications, debates, CBL	-	Electrolyte and water balance	2
7	Practical applications of the pathophysiology of cardiovascular system in dental medicine. The blood pressure.	Lab practical applications, debates, CBL	-	Hypertension	2
8	Practical applications of the pathophysiology of cardiovascular	Lab practical applications,	-	Shock. Cardiac conduction/rhythm disorder	2

	system in dental medicine. The pulse. Vascular reactivity tests.	debates, CBL			
9	Practical applications of the pathophysiology of respiratory system in dental medicine	Lab practical applications, debates, CBL	-	Chronic bronchitis and emphysema. Respiratory tract infection. Asthma	2
10	Practical applications of the pathophysiology of digestive tract and metabolism in dental medicine	Lab practical applications, debates, CBL	-	Malabsorption. Peptic ulcer	2
11	Practical applications of the pathophysiology of lipid and protein metabolism disturbances in dental medicine.	Lab practical applications, debates, CBL	-	Disorders of lipid metabolism. Disorders of calcium and vitamin D metabolism	2
12	Practical applications of the pathophysiology of hyperglycemic and hypoglycaemic syndrome. Diabetes mellitus. Chronic and acute DM complications.	Lab practical applications, debates, CBL	-	Diabetes mellitus. Hypoglycaemia	2
13	Practical applications of the pathophysiology of endocrine pathology. Endocrine diseases involving the oral cavity. Practical applications in dental medicine.	Lab practical applications, debates, CBL	-	Thyroid disorders. Pituitary disorders	2
14	Practical applications of the pathophysiology of renal system in dental medicine.	Lab practical applications, debates, CBL	-	Urinary tract infection. Chronic renal disease	2

Bibliography

1. Paulev Poul-Erik, Textbook in Medical Physiology and Pathophysiology, Copenhagen Medical Publishers, 2000
2. Silbernagl S., Lang F., Color Atlas of Pathophysiology, Thieme, 2000
3. Springhouse, Professional guide to pathophysiology 2ed, Ed. Lippincott Williams and Wilkins, 2006
4. General Practice Notebook <http://www.gpnotebook.co.uk/homepage.cfm>, 2010
5. Robbins & Cotran Pathologic Basis of Disease, Tenth Edition, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The ability to evaluate the essential role of clinical pathophysiology and to integrate it with a multidisciplinary approach of a patient with a specific dental pathology.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL test1 TBL test2	written test 10 % written test 10 %	20
- practical activities	Written practical activity test Case report - oral and multimedia individual presentation	Written test 10 % Case presentation 10%	20
Final evaluation			
- theoretical final exam	Final theoretical exam	Written multiple choice test	30
- practical final exam	Final practical exam	A written / oral - practical test	30
Minimal performance standards: The passing grade is the grade 5 for both theoretical and practical exam; the student is obliged to attend practical sessions, courses, recover all absences, to pass both theoretical and practical exams and to properly use the specialized terminology.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Gliga Florina-Ioana	30 min after each class depending on the schedule

Head of departament

Course coordinator

Practical activities coordinator(s)



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academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pharmacology
2.2 Course coordinator: Prof dr Brassai Attila-Miklos
2.3 Practical activities coordinator(s): Prof. Dr. Brassai Attila Miklós
2.4 Year of study: II 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 3		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 0		
- examinations: 3		
- other activities: 0		
3.8 Total hours of individual study: 19		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Definition and description of medicinal products from a pharmacokinetic, pharmacodynamic and pharmacotoxicological point of view.
6.2 transversal competencies: Responsible performance of professional duties, under conditions of limited autonomy and qualified assistance.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Ensuring and acquiring the basic notions of pharmacology for the biomedical training of the students of the Faculty of Dental Medicine.

7.2 Specific objectives:

Providing the important notions of pharmacodynamics and pharmacotherapy, taking into account the skills of the dentist.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction: basic principles, importance, historical development of pharmacology; general information about drugs - definitions, effects, pharmacokinetics: sites of application, drug absorption, distribution, metabolism, excretion, accumulation Pharmacodynamics: mechanisms of action, interactions, dosing and administration, drug safety and efficacy. Basic and clinical evaluation of the drug. Pharmacotoxicology: toxicity, adverse effects, pharmacovigilance	Oral presentation + interactive discussion	-	-	2
2	Drugs affecting the autonomic nervous system. Cholinergic agonists: direct and indirect parasympathomimetics. Cholinergic antagonists - parasympatholytics; anticonvulsant drugs. Drugs affecting the autonomic ganglia.	Oral presentation + interactive discussion	-	-	2
3	Neuromuscular blockers. Adrenergic drugs: sympathomimetics	Oral presentation + interactive discussion	-	-	2
4	Sympatholytic agents: alpha-blockers, beta-blockers, neurosympatholytics. Cardiac glycosides, other drugs used in congestive heart failure	Oral presentation + interactive discussion	-	-	2
5	Antiarrhythmic drugs Antianginal drugs. Diuretics. Treatment of high blood pressure.	Oral presentation + interactive discussion	-	-	2
6	Agents used to correct the volume of plasma and blood. Antianemic drugs: iron, vitamin B12, folic acid Antithrombotic agents: anticoagulants, platelet inhibitors, fibrinolytic agents. Hemostatic agents: coagulants, antifibrinolytics	Oral presentation + interactive discussion	-	-	2
7	Medicines affecting the respiratory system: Anti-cough medicines, expectorants, anti-asthmatics. Medicines affecting the gastrointestinal tract. Stimulants and digestive supplements. Digestive enzymes Antacids and antitumor agents. Emetic and antiemetic drugs. Medicines, laxatives and antidiarrheals	Oral presentation + interactive discussion	TBL 1	-	2
8	Local anesthetics. General anesthetics: inhalation and intravenous.	Oral presentation + interactive discussion	-	-	2
9	Sedative, hypnotic, anxiolytic drugs: barbiturates, benzodiazepines, alcohols. Antipsychotic drugs. Psychostimulants and analeptic drugs.	Oral presentation + interactive discussion	TBL2	-	2
10	Anti-epileptic drugs, anti-Parkinson drugs, central muscle relaxants. Antidepressants.	Oral presentation +	-	-	2

		interactive discussion			
11	Opioid analgesics and antagonists. Non-steroidal anti-inflammatory drugs, anti-rheumatic drugs, drugs used in the treatment of gout	Oral presentation + interactive discussion	-	-	2
12	Corticosteroids and ACTH. Antimicrobial agents: penicillins, cephalosporins, macrolides, chloramphenicol, tetracyclines, aminoglycosides, polymyxin Antimicrobial chemotherapy agents (antimycobacterials, sulfonamides and trimethoprim. Locally acting substances.	Oral presentation + interactive discussion	-	-	2
13	Urinary and intestinal disinfectants, quinolones. Disinfectants. Topical and general antifungal agents. Protozoal agents: chemotherapy of malaria, amoebiasis, trichomoniasis. Anthelmintic drugs. Antiviral drugs. Antidiabetic agents: insulin and oral antidiabetics. Thyroid hormones and anti-thyroid drugs	Oral presentation + interactive discussion	-	-	2
14	Gonadal hormones and anabolic steroids. Medicines affecting phospho-calcic metabolism. Anticancer drugs and immunosuppressants.	Oral presentation + interactive discussion	-	-	2

Bibliography

Ösz B E - Baze farmacologice în medicina dentară. University Press, 2018. Lippincott - Illustrated Reviews.

Wolters Kluwer, 2019.

1 Rang HP, Dale MM, Ritter JM, Moore PK: Pharmacology, Editura Churchill Livingstone, 5th edition (2003)

2. Hardman J, Limbord L, Gilman A: Goodman & Gilman's - Pharmacological basis of therapeutic drugs, Editura The McGraw-Hill Companies, Inc. 10th ed. (2001)

3. Katzung BG (red): Basic and Clinical Pharmacology, Editura McGraw-Hill, Boston, 9th edition (2004)

4. Brody TM, Larner J, Minneman KP, Harold CN: Human Pharmacology - Molecular-Clinical, Editura Mosby, 4th Edition (2005)

5. Luellmann H, Mohr K, Hein L - Pocket Atlas of Pharmacology, 4th edition, Thieme, 2010

6. Tripathi KD - Pharmacological Fundamentals of Dentistry, Second Edition, Jaypee Brothers Medical Publishers Ltd, New Delhi, 2011

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Objectives of practical pharmacology papers.	Seminar	-	-	2
2	The outcome of some pharmacokinetic aspects.	Discussions on given topics (clinical cases, problems).	-	-	2
3	The study of some pharmacodynamic aspects. Drug interactions.	Discussions on given topics (clinical cases, problems).	-	-	2
4	The study of cholinergic and anticholinergic medication.	Discussions on given topics (clinical cases, problems).	-	-	2
5	Sympathetic nervous system: sympathomimetics and sympatholytics.	Discussions on given topics (clinical cases, problems).	-	-	2
6	Medication of the cardiovascular system.	Discussions on given topics (clinical cases, problems).	-	-	2
7	Local and general anesthetics.	Discussions on given topics (clinical cases, problems).	-	-	2
8	Antiulcerative. Antiallergic agents.	Discussions on given topics (clinical cases, problems).	-	-	2
9	Opioid analgesics. Analgesic and anti-inflammatory.	Discussions on given topics (clinical cases, problems).	-	-	2
10	Antibiotics and antimicrobial chemotherapy. Antimycotics.	Discussions on given topics (clinical cases, problems).	-	-	2
11	Clinical cases	Discussions on given topics (clinical cases, problems).	CBL	-	2
12	Clinical cases	Discussions on given topics (clinical cases, problems).	CBL	-	2

13	Recovery PA	Discussions on given topics (clinical cases, problems).	-	-	2
14	Practical activity exam	Discussions on given topics (clinical cases, problems).	-	-	2

Bibliography

Ösz BE - Baze farmacologice în medicina dentară. University Press, 2018.

Dogaru M, Vari CE, Mărușteru M, Kolcsar M - Farmacologie experimentală, University Press, 2009.

1. Rank HP, Dale MM, Ritter JM, Moore PK: Pharmacology, Editura Churchill Livingstone, 5th edition (2003)

2. Hardman J, Limbord L, Gilman A: Goodman & Gilman's - Pharmacological basis of therapeutic drugs, Editura The McGraw-Hill Companies, Inc. 10th ed. (2001)

3. Katzung BG (red): Basic and Clinical Pharmacology, Editura McGraw-Hill, Boston, 9th edition (2004)

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Identifying the disease state and establishing the correct diagnosis of the dental condition(s).

Conservative therapy of odonto-periodontal structures.

Diagnosis and interceptive therapy of anomalies of the dento-maxillary apparatus.

Prosthetic restoration of dental arches.

Identification of diagnostic and evolutionary peculiarities and examination of the patient with surgical conditions in the oro-maxillofacial sphere.

Management of the theoretical and legislative bases of the operational health systems in Romania as well as the managerial ones regarding the dental practice.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL : 2 X 5%	MCQ	10
- practical activities	CBL : 2 X 10%	MCQ / ORAL EXAM	20
Final evaluation			
- theoretical final exam	Knowledge of all the concepts taught in the courses.	MCQ	50
- practical final exam	The ability to interpret/prescribe a medical prescription for a given case.	MCQ /Essay Test	20
Minimal performance standards:			
Knowledge of the mechanism of action of drugs, dosage and therapeutic indications.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Brassai Attila-Miklos	30 minutes after every lecture

Head of department

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
ROMÂNIA
UNIVERSITATEA DE MEDICINĂ,
FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Microbiology - virusology, mycology			
2.2 Course coordinator: Prof dr Man Adrian			
2.3 Practical activities coordinator(s): Ciurea Cristina			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 1		
- examinations: 2		
- other activities: 1		
3.8 Total hours of individual study: 33		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
1) Suspicion and recognition of the etiology of viral, parasitic and fungal infections
• proper requesting of microbiological analyses required for diagnosis
• understanding of microbiological results and their appropriate use in the patient's treatment
• acquiring a basic knowledge of prevention and treatment of viral infections
• knowledge of current issues regarding the re-emerging viral infections
2) Knowledge and understanding the concepts, basic theories and methods of the specific area of specialization.
Designing and deepening of basic knowledge in dental medicine, with general medical coverage

- Knowledge of nature of microorganisms that can contaminate surfaces and dental instruments in the dental cabinet
 - Paying particular attention to microbiological and hygienic-sanitary control in various stages of treatment in dental offices, to prevent microbial contamination, so to comply with the microbiological standards.
 - Defining the principles of decontamination. Learning decontamination procedures (asepsis, disinfection, sterilization and antisepsis)
 - Using the basic knowledge for explanation and interpretation of various types of concepts, situations, processes, projects, etc. associated to the microbiological field
- 3) The students will acquire skills regarding the applicability of decontamination methods, techniques for harvesting biological samples and pathological products, diagnostic methods in mycology, parasitology and virology.
- 4) The student will own theoretical knowledge related to infectious diseases, the causative agents of infectious diseases (structure, habitat, pathogenicity factors, etiology, etc.), the specific manifestations of maxilla-facial area, prevention, treatment.

6.2 transversal competencies:

- Team work abilities
- Oral and written communication skills
- Development of professional and ethical values
- Solving clinical situations and taking correct therapeutic decisions
- Responsible and fair execution of professional duties

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquiring knowledge about microbial biology, how the microbes cause disease, possibilities for prevention and treatment of infections

7.2 Specific objectives:

Knowledge about

- o Morphology, physiology and genetics of viruses, parasites and fungi
- o the means by which the microbes cause disease
- o the role of immune system in the defense against viral / parasitic / fungal infections
- o the diagnostic procedures used in viral, parasitic and fungal infections, the factors with possible influence on the results
- o the main indications for performing microbiological diagnosis
- o the mechanisms of antimicrobial activity
- o epidemiology
- o the microorganisms - viruses, fungi, parasites - involved in important human infections (morphology, caused diseases, pathogenesis, immunity, mode of transmission, prevention and treatment)
- o the major medical problems caused by microorganisms (viruses, fungi and parasites): infections in immunosuppressed patients, the role of vaccination in preventing infections

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Given the increasing number of patients with invasive and / or immunosuppressive interventions, which are vulnerable to bacterial infections, and the emergence or re-emergence of some bacteria, it is essential to prepare future doctors in the field of microbiology. This ensures the acquirement of good knowledge on the bacteria responsible for infections, and on the principles of diagnosis, treatment and prophylaxis.

- Particular attention is paid to microbiological and hygienic-sanitary control during the treatments conducted in

dental offices, in order to prevent microbial contamination and to comply to the microbiological standards.

- It is important to know the normal flora of the oral cavity, the bacteria involved in cariogenesis and periodontal disease, and the mechanisms by which oral bacteria can cause disease.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Man Adrian

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Preventive dentistry (1)			
2.2 Course coordinator: Șef I dr Bereșescu Liana			
2.3 Practical activities coordinator(s): sef lucr dr tohati adrian, sef lucr dr petcu blanka, sef lucr dr beresescu liana, asist dr bechir farah			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 21		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 7		
- examinations: 7		
- other activities: 0		
3.8 Total hours of individual study: 56		
3.9 Total hours: 126		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: The student must be able to know the equipment, materials, the tools and techniques needed to implement oral hygiene optimum.
6.2 transversal competencies: The student must know the labor protection rules and the risks of possible nosocomial infections

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Introducing students to the field of dental prophylaxis.
7.2 Specific objectives: Knowledge of different methods and techniques of primary and secondary prophylaxis.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The history and philosophy of dental prevention	oral presentation and multimedia	-	-	2
2	The preventions of infections transmission in dentistry	oral presentation and multimedia	-	-	2
3	Organization of the circuit of clinical activity in the dental office	oral presentation and multimedia	-	-	2
4	Saliva and its role in maintaining oral health.	oral presentation and multimedia	-	-	2
5	The dental plaque	oral presentation and multimedia	-	-	2
6	The role of the dental plaque in caries and periodontitis etiology	oral presentation and multimedia	-	-	2
7	Dental plaque highlighting. Health Index.	oral presentation and multimedia	-	-	2
8	The control of dental plaque by main mechanic methods	oral presentation and multimedia	-	-	2
9	The control of dental plaque by supplementary methods	oral presentation and multimedia	-	-	2
10	THE CHEMICAL CONTROL OF THE DENTAL PLAQUE	oral presentation and multimedia	-	-	2
11	Professional hygienisation	oral presentation and multimedia	-	-	2
12	Food hygiene	oral presentation and multimedia	-	-	2
13	Fluoride: generalities, metabolism and action	oral presentation and multimedia	-	-	2
14	General and local methods of fluoride use	oral presentation and multimedia	-	-	2
Bibliography PREVENTIVE DENTISTRY NOTIONS. BERESCU LIANA, PETCU BLANKA, FARAH BECHIR, 2019, University Press Tg Mures.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Labor protection training	oral presentation	-	-	3
2	Presentation of the discipline's internal regulations	oral presentation	-	-	3
3	General presentation of the office of dental Medicine	oral presentation	-	-	3
4	Dental plaque highlighting.	practical activities	-	-	3
5	Oral hygiene index	practical activities	-	-	3

6	Periodontal index	practical activities	-	-	3
7	Practical presentation of different brushing techniques	practical activities	-	-	3
8	The practical acquisition of different brushing techniques	CBL session	-	-	3
9	practical presentation of different complementary techniques	practical demonstration	-	-	3
10	The practical acquisition of various complementary techniques	CBL session	-	-	3
11	Demonstration of professional hygienisation techniques	practical demonstration	-	-	3
12	The acquisition of professional hygiene techniques	practical activities	-	-	3
13	Practical presentation of topical fluoridation	practical demonstration	-	-	3
14	Practical elements of food hygiene	practical activities	-	-	3

Bibliography

PREVENTIVE DENTISTRY NOTIONS. BERESESCU LIANA, PETCU BLANKA, FARAH BECHIR, 2019 Editura University Press Tg Mures

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	2 CBL sessions	practical evaluation	30
Final evaluation			
- theoretical final exam	test	grill questions	50
- practical final exam	Practical activities	practical	20
Minimal performance standards: Realization of a feasible prophylaxis plan in order to obtain an individualized oro-dental hygiene			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bereşescu Liana	Wednesday 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Healthcare informatics and biostatistics			
2.2 Course coordinator: Șef I dr Pop Marian			
2.3 Practical activities coordinator(s): Șef I dr Pop Marian			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 1		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 14		
3.9 Total hours: 70		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: Not applicable

5. Conditions

5.1 for lectures: Not applicable
5.2 for practical activities: Not applicable

6. Specific competencies acquired

6.1 professional competencies: -The student must demonstrate the ability to understand and to acquire IT specific terms, respectively glossary of key terms used in medical informatics -The student must demonstrate the ability to understand and use the main hardware (PC) and software used in computer science and medical informatics -The student must know the main branches and areas of interest in the field of medical informatics -The student must demonstrate the ability to use the latest online documentation tools by understanding the specific architecture of the current Internet, or Web services, and an adequate knowledge of different types of tools for indexing and retrieval on the Internet. - The student must be able to apply the knowledge gained in

practice, regarding all stages of documentation (online), organization and retrieval of information in medical databases and / or spreadsheet programs, writing / editing and presentation of scientific papers format imposed in the biomedical field

6.2 transversal competencies:

- Familiarity with specific technologies of the Information Society, the rules of ethics and conduct online security risks associated with managing information in digital media
- Familiarity with the use of e-learning platforms synchronous and asynchronous, respectively test solutions online 'adaptive Assessment server' used by most test centers internationally

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The progress of modern medicine becomes increasingly dependent of the ways the computer assists the medical field. Therefore, the main goal of discipline is to familiarize students in the biomedical field with the specific skills requirements of the 'digital age' and with IT vocabulary with key technologies related to computer assisted practice and biomedical research.

7.2 Specific objectives:

- Demonstrate students ability to understand and use the main tools hardware (PC) and software used in computer science and medical informatics
- Learning important aspects of using the services of indexing and searching online information
- Acquisition of practical skills to use advanced solutions for editing office documents required format, manage and organize information exported from medical databases in spreadsheet programs, preparing electronic presentations

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory Guide. Medical informatics objectives	Oral + multimedia presentation	n/a	n/a	2
2	Medical informatics fields	Oral + multimedia presentation	n/a	n/a	2
3	Data, Information, Knowledge	Oral + multimedia presentation	n/a	n/a	2
4	Architecture of a digital computer. The hardware architecture of a automated computer system	Oral + multimedia presentation	n/a	n/a	2
5	Architecture of a digital computer. The software architecture of a automated computer system	Oral + multimedia presentation	n/a	n/a	2
6	Computer Networks – introductory guide	Oral + multimedia presentation	n/a	n/a	2
7	The Internet – introductory guide	Oral + multimedia presentation	n/a	n/a	2
8	Online documentation. Searching for information on the Internet (I) - Introduction, types of tools and services for searching information on the Internet	Oral + multimedia presentation	n/a	n/a	2
9	Online documentation. Searching for information on the Internet (II) Ways to use search engines (Google) and directory services (Yahoo Directories) to search for information in the biomedical field. Automated medical documentation services (Medline)	Oral + multimedia presentation	n/a	n/a	2

10	Online documentation. Searching for information on the Internet (III) Evaluation of quality of information published on the Internet / World Wide Web.	Oral + multimedia presentation	n/a	n/a	2
11	Office applications in the biomedical field: Word processing software. Desktop Publishing (DTP). Advanced text editors.	Oral + multimedia presentation	n/a	n/a	2
12	Office applications in biomedical field: spreadsheet software (MS Excel, OO Calc). Software for electronic presentations. Software for organizing activity. Suite of office applications (MS Office, Lotus Smart Suite, OpenOffice).	Oral + multimedia presentation	n/a	n/a	2
13	Biomedical databases.	Oral + multimedia presentation	n/a	n/a	2
14	Biomedical simulation and modeling.	Oral + multimedia presentation	n/a	n/a	2

Bibliography

1. Tigan S., Achimaș A., Drugan T.: Curs de Informatică și Statistică Medicală, ed. SRIMA, Cluj-Napoca, 2001
2. Mărușteri M., Buraga S, Acostăchioaie D.: Primii pași în Linux (carte + CD-ROM cu ROSLIMS LinuxLive CD), Ed. Polirom Iași, 2006, carte disponibilă online <https://www.slideshare.net/busaco/m-mruteri-s-buraga-d-acostchioaie-primii-pai-n-linux>
3. Mărușteri M.: Documentare online, manual disponibil online pe serverele UMFST Tg. Mures http://www.umftgm.ro/info/doonline_ROV2.pdf
4. Marius Mărușteri – Documentare online – prezent și perspective, disponibil online pe serverele UMFS Tg. Mures <https://www.umfst.ro/info/english/doonline.pdf>
5. Data.Information.Knowledge - material didactic disponibil online pe serverele UMFST Tg. Mures https://www.umfst.ro/info/english/Data_info_know.pdf
6. Blachman N. – Googleguide, disponibil online la <http://www.googleguide.com/contents/>
7. Gari D Clifford, Joaquin A Blaya, Rachel Hall-Clifford and Hamish SF Fraser: Medical informationsystems: A foundation for healthcare technologies in developing countries, Biomedical Engineering Online, 2008 <https://biomedical-engineering-online.biomedcentral.com/articles/10.1186/1475-925X-7-18>

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Basic knowledge of using computers	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
2	File Managers. (Windows Explorer): General Concepts. Files. Folders/Directories	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
3	Utilization of Office software in biopharmaceutical field	Practical demonstrations. Synchronous/asynchronous e-learning methods.	Electronic Medical Records (EMR)	n/a	2
4	Advanced text editors. MS Word (I): General concepts. Page formatting; paper, fonts, text formatting, paragraph formatting	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
5	Advanced text editors. MS Word (II): characteristic elements of MS Word text editor: how to select text; operations with blocks, operations with files	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
6	Advanced text editors. MS Word (III): OLE technology (Object Linking and Embedding) – linking and embedding objects in a Word file. Mixing text and image in a Word file.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
7	Advanced text editors. MS Word (IV) – creating and editing tables	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2

8	Advanced text editors. MS Word (V) – the equation editor	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
9	Spreadsheet software (MS Excel, OO Calc). MS Excel (I) – General concepts ; creating workbook; sheets and cells formatting and editing.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	Electronic Medical Records (EMR)	2
10	Spreadsheet software MS Excel (II): using objects, editing formulas, using absolute and relative addresses.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
11	Spreadsheet software MS Excel (III): using simple and complex functions	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
12	Spreadsheet software MS Excel (IV): Diagrams /Charts	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
13	Electronic presentation software (MS Powerpoint, OO Impress). MS Powerpoint. General concepts. Creating and using slides. Using objects in slides. Animations and transitions.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
14	Online searching strategies. Tips on finding information on The Internet – introductory guide, tools and services for online searching; Online search services: Search engines (Google); Web Directories (Yahoo Directories);	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	Medical Online searching strategies	2
Bibliography 1. Tigan S., Achimaș A., Drugan T.: Curs de Informatică și Statistică Medicală, ed. SRIMA, Cluj-Napoca, 2001 2. Mărușter M., Buraga S, Acostăchioaie D.: Primii pași în Linux (carte + CD-ROM cu ROSLIMS LinuxLive CD), Ed. Polirom Iași, 2006, carte disponibilă online https://www.slideshare.net/busaco/m-mruteri-s-buraga-d-acostchioaie-primii-pai-n-linux 3. Mărușter M.: Documentare online, manual disponibil online pe serverele UMFST Tg. Mures http://www.umftgm.ro/info/doconline_ROV2.pdf 4. Marius Mărușter – Documentare online – prezent și perspective, disponibil online pe serverele UMFS Tg. Mures https://www.umfst.ro/info/english/doconline.pdf 5. Data. Information. Knowledge - material didactic disponibil online pe serverele UMFST Tg. Mures https://www.umfst.ro/info/english/Data_info_know.pdf 6. Blachman N. – Googleguide, disponibil online la http://www.googleguide.com/contents/					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Correlation between theoretical and practical notions Capacity of performing practical work in the field	Multiple choice test (TBL)	10
- practical activities	Correlation between theoretical and practical notions Capacity of performing practical work in the field	Practical skills tests during the semester, to test student's ability to properly write an electronic document in a specific/imposed format	25

Final evaluation			
- theoretical final exam	Understanding and integration of all theoretical concepts. Knowledge of bibliographical references	Multiple choice test	40
- practical final exam	Correlation between theoretical and practical notions. Capacity of performing practical work	Practical exam at the end of semester.	25
Minimal performance standards: Understanding basic glossary of specialized terms in information technology and medical informatics specific terms. Ability to proper use the online documentation tools and solutions Ability to properly use the advanced solutions to edit documents, using a pre-defined format Basic understanding of biostatistical terms			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Pop Marian	Monday, 7-8 am

Head of departament

Course coordinator

Practical activities coordinator(s)



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1. Data regarding the program

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1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical psychology
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin
2.3 Practical activities coordinator(s):
2.4 Year of study: II 2.5 Semester: 2 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 4		
- examinations: 4		
- other activities: 8		
3.8 Total hours of individual study: 44		
3.9 Total hours: 72		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Methodology of scientific research			
2.2 Course coordinator: Prof dr Bacărea Vladimir			
2.3 Practical activities coordinator(s): VACANT / Șef I dr. Ghiga Dana-Valentina, Drd. Răchită Anca			
2.2 Course coordinator: Asist dr Imre Mihaly			
2.3 Practical activities coordinator(s): Șef I dr. Ghiga Dana-Valentina, Drd. Răchită Anca (VACANT)			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 1		
- supplemental documentation at the library, from specialized information portals and in the field: 1		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 4		
3.9 Total hours: 32		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
The student will need to know the main stages of evaluation and initiation of a specialized study
The student must be able to interpret the quality of a study / published scientific article
The student must be able to apply the knowledge gained in community practice, in initiating and conducting a community study, in dissemination of the obtained results and to assist local and national strategic programs

6.2 transversal competencies:

Oral and written communication skills with knowledge of the scientific oral presentation rules

and the undergraduate thesis / PhD thesis structure

To respect the professional ethics by following the mandatory protocols used in medical research

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Scientific research has a big influence in university area. Applying the scientific research principles in medical area is a necessity given the structure of such University – 6 years with the possibility of admission to a PhD program. The essence of this course is the elaboration of an undergraduate thesis at the end of the studies.

7.2 Specific objectives:

Introduce students to techniques of clinical and epidemiological studies.

Learning required protocols to follow in medical research.

Methodology of the medical research studies.

Presentation of results and conclusions in writing (article) and oral (presentation rules).

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in Methodology of medical scientific research, history	PowerPoint presentation	Oral presentation	Immunisation	1
2	Introduction in Methodology of medical scientific research, generalities	PowerPoint presentation	Oral presentation	Infectious disease of childhood	1
3	Medical scientific research: Strategies and planning a research study	PowerPoint presentation	Oral presentation	Disorders of calcium and vitamin D metabolism	1
4	Steps of a research study: Study population and sample	PowerPoint presentation	Oral presentation	Oedema	1
5	Steps of a research study: Types and methods of data collection	PowerPoint presentation	Oral presentation	Bone malignancy	1
6	Steps of a research study: Research studies (descriptive studies)	PowerPoint presentation	Oral presentation	Infant feeding	1
7	Steps of a research study: Research studies (analytical studies, screening and diagnostic tests)	PowerPoint presentation	Oral presentation	Malformations of lip/palate	1
8	Steps of a research study: Research studies (Randomized clinical study)	TBL	Individual and teamwork	Pain management	1
9	Steps of a research study: Data analysis	PowerPoint presentation	Oral presentation	Oral disorders (incl. Caries)	1
10	Steps of a research study: Research study bias	PowerPoint presentation	Oral presentation	Drug reactions	1
11	Steps of a research study: Displaying results	PowerPoint presentation	Oral presentation	Post-operative care	1
12	Steps of a research study: The structure of a scientific paper (Evaluation of a scientific article)	PowerPoint presentation	Oral presentation	Oral disorders (incl. Caries)	1
13	Steps of a research study: The structure of a scientific paper (Evaluation of a scientific presentation, undergraduate thesis)	PowerPoint presentation	Oral presentation	Oral disorders (incl. Caries)	1
14	Ethics in medical research	PowerPoint presentation	Oral presentation	HIV	1

Bibliography

Bacărea Vladimir, Ghiga Dana, Mărușteru Marius, Oláh Péter, Petrișor Marius. A Primer in Research Methodology and Biostatistics, University Press Tg. Mureș, 2014.

Uwe Flick. Introducing research methodology. A beginner's guide to doing a research project. SAGE Publications Ltd, London, 2011.
 Christensen LB, Burke Johnson R, Lisa A. Turner. Research Methods, Design, and Analysis. Eleventh Edition, Pearson Education, Inc., 2011.
 Kumar R. Research methodology a step-by-step guide for beginners. 3rd edition, SAGE Publications Ltd, London, 2011.
 Gordis L. Epidemiology. Fourth edition, Saunders Elsevier, Philadelphia, 2009.
 Stuart MC. The complete guide to medical writing. Pharmaceutical Press, London, 2007.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Online documentation	PowerPoint presentation	Oral presentation	Immunisation	1
2	Research studies - generalities, case report study	PowerPoint presentation	Oral presentation	Infectious disease of childhood	1
3	Epidemiological measurements	PowerPoint presentation	Oral presentation	Infectious disease of childhood	1
4	Cross sectional study - generalities	PowerPoint presentation	Oral presentation	Bone malignancy	1
5	Cross sectional study - exercises	Practical exercises (pdf and excel files)	Individual work	Asthma	1
6	Test (cross sectional study)	Multiple choice test on computer	Test	Hypertension	1
7	Cohort study - generalities	PowerPoint presentation	Oral presentation	Malformations of lip/palate	1
8	Cohort study - exercises	Practical exercises (pdf and excel files)	Individual work	Oral disorders (incl. Caries)	1
9	Case-Control study - generalities	PowerPoint presentation	Oral presentation	Malformations of lip/palate	1
10	Case-Control study - exercises	Practical exercises (pdf and excel files)	Individual work	Oral disorders (incl. Caries)	1
11	Screening and diagnostic tests - generalities	PowerPoint presentation	Oral presentation	HIV	1
12	Screening and diagnostic tests - exercises	Practical exercises (pdf and excel files)	Individual work	Hypoglycaemia	1
13	Test (research studies)	Multiple choice test on computer	Test	Osteoporosis	1
14	Critical reading of a scientific paper (scientific article)	PowerPoint presentation	Oral presentation	Inflammatory bowel disease	1

Bibliography

Bacărea Vladimir, Ghiga Dana, Mărușteri Marius, Olah Peter, Petrișor Marius. A primer in research methodology and biostatistics. University Press Târgu Mureș, ISBN: 978-973-169-285-2, 2014.
 Uwe Flick. Introducing research methodology. A beginner's guide to doing a research project. SAGE Publications Ltd, London, 2011.
 Christensen LB, Burke Johnson R, Lisa A. Turner. Research Methods, Design, and Analysis. Eleventh Edition, Pearson Education, Inc., 2011.
 Kumar R. Research methodology a step-by-step guide for beginners. 3rd edition, SAGE Publications Ltd, London, 2011.
 Gordis L. Epidemiology. Fourth edition, Saunders Elsevier, Philadelphia, 2009.
 Stuart MC. The complete guide to medical writing. Pharmaceutical Press, London, 2007.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Knowing the steps of a research study
 Knowing how to collect patients data for use in research studies
 Knowledge of undergraduate thesis structure in order to develop an undergraduate thesis and a PhD thesis

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade

Evaluation during the semester			
- lecture	Individual responses; Team responses; Responses motivation	TBL	10
- practical activities	Correlation between theoretical and practical notions	Multiple choice test on computer	20
Final evaluation			
- theoretical final exam	Understanding and integration of all theoretical concepts	Multiple choice test	45
- practical final exam	Correlation between theoretical and practical notions	Multiple choice test on computer	25
Minimal performance standards: Enunciation of the steps of a research study Medical research study classification Methods of result presentation Scientific paper structure Undergraduate thesis structure			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bacărea Vladimir	30 de minute după fiecare curs / activitate practică
Asist dr Imre Mihaly	30 de minute după fiecare curs / activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ergonomy. Notions of diagnosis in dentistry
2.2 Course coordinator: Șef I dr Benedek Csilla
2.3 Practical activities coordinator(s):
2.4 Year of study: II 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 2		
- examinations: 7		
- other activities: 7		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Benedek Csilla	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language (2)			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Lakó Cristian			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 0	3.3 practical activities: 4
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Romanian language 1
4.2 competency: Limba română la nivel elementar

5. Conditions

5.1 for lectures: -
5.2 for practical activities: manual

6. Specific competencies acquired

6.1 professional competencies: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbitura cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.
7.2 Specific objectives: La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie.

8.1 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Vestimentație	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Televiziune și presă scrisă	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Ce știi să faci?	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Sporturi și sportivi	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	Sărbători și aniversări	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Stil de viață	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	Minte sănătoasă în corp sănătos	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, CV, Pascale, LE, Limba română - manual pentru studenți străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit în România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog	30
Final evaluation			
- theoretical final exam	Abilitatea de a înțelege și completa exerciții de multiple choice, potrivire, folosirea corectă a numărului, articolului verbelor învățate	Test scris care cuprinde exerciții de vocabular și gramatică	40
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog	30
Minimal performance standards:			
Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.			

11. Appointment timetable (for students)

Lect dr Lakó Cristian	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical terminology - applied linguistics and communication skills in Romanian language			
2.2 Course coordinator: Lect dr Năznea Adrian			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
Cunoașterea limbii române la nivel mediu.

5. Conditions

5.1 for lectures:
Sală dotată cu mijloace multimedia
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
La sfarsitul cursurilor, studentul va putea sa:
-foloseasca functiile specifice limbajului de specialitate (sa adreseze intrebari, formuleze opinii, sfaturi, sa convinga,
sa explice, sa descrie situatii concrete specifice domeniului medicina dentara)
-citeasca fluent si corect si sa inteleaga continutul unor texte de specialitate de dificultate medie/ avansata
-sa inteleaga mesaje receptate pe cale auditiva legate de sfera profesionala
-sa vorbeasca fluent si corect, folosind un vocabular variat si adecvat unor situatii specifice domeniului

-sa scrie corect, conform regulilor gramaticale, folosind un stil si un vocabular adecvat continutului de idei
-sa utilizeze un vocabular variat de termeni din domeniul de specialitate.

6.2 transversal competencies:

Studentul va putea sa:

-utilizeze limba română ca mijloc de comunicare cu alti vorbitori ai aceleiasi limbi in situatii din domeniul medicinei dentare;

- face prezentari orale;

- se documenteze si sa structureze informatii, sa sintetizeze date obtinute prin chestionare administrate unui grup tinta pentru pregatirea si elaborarea de lucrari in domeniu, participarea la stagii;

- se familiarizeze cu utilizarea unor platforme de comunicare virtuala si munca in grup.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Cunoașterea limbii române la nivel avansat.

7.2 Specific objectives:

Dezvoltarea celor patru abilități de bază: citirea, înțelegerea mesajelor receptate pe cale auditivă, comunicarea verbală, comunicarea scrisă precum și familiarizarea cu vocabularul din domeniul de specialitate

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinei generale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
2	Introducere în terminologia medicinei dentare. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
3	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
4	Bolile dinților. Boli parodontale. Abcesul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice	-	-	2

		corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea			
5	Bolile dinților. Cariile dentare. Placa dentară. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
6	Investigații în medicina dentară: Radiografii dentare. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2
7	Comunicarea cu pacientul. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	-	2

Bibliography

Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12

Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/2009

Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr. 2-3, anul XIII

Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași

Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Studentul, absolventul viitor, va putea să comunice în limba română atât cu potențialul angajator, cât și cu pacienții.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Dialogul	Verificare pe parcurs	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specific situației	Întrebări cu complement multiplu, formare de cuvinte, potrivire de cuvinte, completare de spații	60
- practical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specific situației	dialogul	10
Minimal performance standards:			
Să poată interacționa cu pacientul în conducerea interviului medical, să știe să adreseze întrebări referitoare la			

anamneză, să poată oferi explicații, recomandări simple; să citească și să înțeleagă ideile principale ale unui text sau mesaj audio, să poată răspunde la întrebări pe baza lor fără greșeli mari la nivelul organizării discursului, să cunoască un număr satisfăcător de termeni specifici domeniului.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Lect dr Năznea Adrian	Miercuri 16-18, sala 37 Clădirea Centrală

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biocompatibility of dental materials			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 1		
- examinations: 2		
- other activities: 1		
3.8 Total hours of individual study: 26		
3.9 Total hours: 40		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Dental students' option for this preclinical optional course.
4.2 competency: English language examination certificate (B2 or C1).

5. Conditions

5.1 for lectures: Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: -The student will know the properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. -Future dentist should be able to choose a dental material from the variety of options on the market according to its potential health risks. They must know which material is better, more efficient and especially which matches the requirements and demands of patients, ensuring the optimum conditions to comply with the international norms. -In addition, the student will understand to what extent dental materials may be hazardous to patients and the environment.

6.2 transversal competencies:

- The student will be aware that the work they perform it is a teamwork performed by the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in dental practice.
- Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

- To acquire the necessary knowledge about the potential health risks of dental materials regarding their proper and efficient use in dental practice.

7.2 Specific objectives:

- To acquire the ability to understand different aspects about the properties of dental materials which have major implications in dental health.
- Understanding theoretical aspects of biocompatibility to be able to use the appropriate dental materials in practice.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Fundamental aspects of biocompatibility.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
2	Determination of biocompatibility: evaluation and test methods.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
3	Regulations and standards.	Test, multimedia.	Evaluation (30% of final grade).	-	2
4	Biocompatibility of dental amalgam and resin-based composites.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
5	Biocompatibility of dental cements and ceramics.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
6	Biocompatibility of dental alloys and polymers.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2
7	Side effects of dental materials, occupational exposures and environmental aspects.	Oral + multimedia presentation.	Course of 2 hours in English language.	-	2

Bibliography**References (compulsory):**

1. 'Dental Materials' on BlackBoard and E-learning Platform, Website of the UMFST G.E.

Palade of Tg.Mures

2. Schmalz G., Arenholt-Bindslev D.: Biocompatibility of Dental Materials. Springer-Verlag Berlin, Heidelberg, 2009.

3. Székely M., Borş A., Molnar-Varlam Cristina: Dental Materials – Course for Students. University Press, UMFST Tg.Mureş, 2019.

References (facultative):

1. McCabe J.F., Walls A.W.G.: Applied Dental Materials. Editura Blackwell Science, Oxford, 1998.

2. Von Fraunhofer J.A.: Dental Materials at a Glance. Wiley-Blackwell Publishing, Oxford, 2010.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Marketing and dental practice management performance through knowledge regarding the biocompatibility of dental materials.
- Didactic activity in practical instruction or administration in the field of dental materials.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge. Attendance to lectures according to the Regulations of Discipline.	Grade obtained on test individually.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Exam test – multiple choice questions.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for the final theoretical exam: to know the basics regarding the biocompatibility of dental materials.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	30 min. after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Adhesive modern techniques in dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 3		
- examinations: 3		
- other activities: 6		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical knowledge on contemporary dental adhesive techniques covering various ramifications of adhesion and adhesives in the broad domain of dentistry, providing an important evidence base. A solid grasp of the principles, mechanics and techniques of bonding and modern adhesive systems is essential in dentistry. The course includes theoretical aspects of the concept of „adhesive dentistry” as it is apparent that adhesion and adhesives play important roles in modern clinical dentistry. Students will develop skills and confidence through the design and execution of minimally invasive indirect and direct adhesive techniques in order to achieve the best functional and aesthetic results, in point of view of achieving an appropriate treatment plan.

6.2 transversal competencies:

The course will be delivered as a series of interactive meetings. For students to achieve a comprehensive, well-rounded education, integrated teamwork on several fronts is vital. Teamwork is necessary between students and between students and teachers. The more teamwork fundamentals exhibited, the more opportunity exists for students to learn the vital skills of compromise and collaboration in modern adhesive dentistry.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

-The student has to understand the basic concepts on the techniques used in adhesive dentistry.
-The student will learn to develop skills to apply the gained knowledge with an appropriate correlation in various clinical situations in which it is possible to use these methods.

7.2 Specific objectives:

-The student will be able to describe the concepts and methods used in modern adhesive techniques.
-The student will acquire the ability to understand different aspects of composition and properties of various adhesive systems which have implications for major applications in dentistry.
-Applications of theoretical knowledge on various adhesive systems to their use in dental practice.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Materials, methods and technique options for adhesive fixing.	Test	Two hours every week in english.	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Adhesive techniques used in pedodontics.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.
2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-Course content is in accordance with the courses on the same topic listed in other universities with important achievements in theoretical and empirical evidence techniques in adhesive dentistry.
-Acquiring these modern restorative methods will be extremely useful for future dentists, adhesive techniques representing the greatest progress that restorative dentistry registers itself.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic.	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of modern adhesive techniques used in dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Friday 13-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Diet principles in oral pathology			
2.2 Course coordinator: Prof dr Tarcea Monica			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 8		
- supplemental documentation at the library, from specialized information portals and in the field: 8		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 4		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: - nu e cazul
4.2 competency: - nu e cazul

5. Conditions

5.1 for lectures: minim 15 cursanti
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Descrierea noțiunilor de bază ale funcționării organismului uman și a mecanismelor generale de producere a bolilor. - Integrarea noțiunilor de bază în concepte/ situații care se aplică organismului uman cu scopul de a explica semne și simptome. - Descrierea conceptelor, teoriilor și noțiunilor fundamentale de fiziopatologie, pe sisteme și mecanisme de acțiune. - Stabilirea tehnicilor de îngrijire impuse de existența unor semne și simptome de boală. - Stabilirea principiilor terapeutice care modifică mecanismele fiziopatologice în vederea ameliorării simptomelor

bolii.

- Utilizarea noțiunilor dobândite în cadrul disciplinei pentru cercetarea științifică ulterioară

6.2 transversal competencies:

Realizarea unei lucrări/referat/ caz clinic cu identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente diverselor mecanisme fiziopatologice.

- Identificarea rolurilor și responsabilităților într-o echipă pluridisciplinară și aplicarea de tehnici de relaționare și muncă eficientă în cadrul echipei și în relație cu pacientul.

- Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată (portaluri Internet, aplicații software de specialitate, baze de date de tip PUBMED, cursuri on-line etc.) atât în limba română, cât și într-o limbă de circulație internațională.

- Dezvoltarea gândirii medicale și folosirea informațiilor științifice în contextul interdisciplinarității

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning of basic diet principles and how to elaborate on specific diets recommended in various oral and dental illnesses.

- To monitor and evaluate the hazards related to nutrition, their effects on teeth and oral mucosa, and proper intervention to reduce and prevent the illnesses related to it and to promote the dental health status of the population.

7.2 Specific objectives:

- Analysis of main components of a healthy diet with a good impact on teeth

- Identification of general functions and major food sources for each nutrient necessary for dental and oral system

- To know the methodology of evaluation of food quality and food safety.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Definition and importance of nutrition in for a healthy dental status and prevention of chronic diseases. Healthy diet principles for mouth and teeth.	Oral presentation and multimedia	-	disorders of calcium and vitamin D metab	2
2	Dietary assessment. Digestion, absorption and metabolism of food and nutrients and dental impact.	Oral presentation and multimedia	-	eating disorders	2
3	Dietary reference and nutrients and caloric intakes for the body. Major food sources recommended in oral pathology and cooking technics	Oral presentation and multimedia	-	eating disorders	2
4	Diet recommendations during life cycle for healthy teeth: children, teenagers, adults, senior, athletes and pregnant women.	Oral presentation and multimedia	TBL	malabsorption	2
5	Diets and menus recommended in various oral and dental illnesses like: caries, edentations, trush, granulomatosis, dermatosis, candidiasis or viral infections.	Oral presentation and multimedia	-	candidiosis	2
6	Diets and menus recommended in cancer	Oral presentation and multimedia	-	malnutrition	2
7	Diets and lifestyle practices recommended in diabetes, heavy metals poisoning, fluorosis or xerostomia	Oral presentation and multimedia	Final evaluation by Essay	xerostomiosis	2

Bibliography

1. Mahan LK, Escott-Stump S. - Krause's Food, Nutrition, and Diet Therapy. 14th ed. W.B. Saunders Co, Philadelphia, 2014.

Bibliografie suport:

2. Nnakwe NE. – Community Nutrition, Planning Health promotion and Disease Prevention, 3rd edition, Edit. Jones & Bartlett Learning, 2017

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Evaluation and analysis of food nutritional risk factors and proper implementation of dental health programs, preventive measures, and education training for the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Verificare	Referat	60
- practical final exam	Studii de caz	Discutii, dezbateri	30
Minimal performance standards:			
- admitere la examenul practic doar daca nu depaseste 50% din absente nerecuperate			
- nota minima 5 la practic si teoretic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tarcea Monica	30 minute dupa fiecare curs/activitate practica

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials in paediatric dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-In addition to acquiring material handling modern techniques of dental materials used in restorative pediatric dentistry, the student will know the composition, the physical, mechanical and chemical properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. There is a specific use of the dental materials in pediatric dentistry, new restorative and therapeutic materials have been developed, and there are specific pedodontic materials that the student will endorse.
-Future dentist should know that there are many variants of restoring coronary lesions in temporary and young

permanent teeth and he or she should be able to choose a material from the variety of options on the market. They must know which material is better, more efficient and especially which matches the requirements and demands of the small patients, ensuring the optimum conditions to comply with the international norms. In addition, the student will understand the orthodontic biomechanical ways and the materials from which are manufactured the orthodontic brackets and devices for functional rehabilitation used in orthodontics.

6.2 transversal competencies:

- Collaboration and teamwork is today a complex, requiring permanent university training. The student realizes that the work they perform is a teamwork and the human factor is: the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in pediatric and orthodontic practice.
- Teamwork, passion for performance and commitment to helping patients equally binds students to become increasingly efficient dental professionals in dental practice.
- Marketing and dental practice management performance through knowledge of dental materials.
- Didactic activity in practical instruction or administration in the field of dental materials used in pedodontics and orthodontics.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

- To acquire the necessary knowledge for the proper and efficient use of materials in pediatric dentistry and orthodontics.

7.2 Specific objectives:

- To acquire the ability to understand different aspects about the composition and properties of dental materials which have major implications in practice in pediatric dentistry and orthodontics.
- Understanding theoretical aspects on dental materials to be able to use in pediatric dentistry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Generalities, conditions of materials used in pediatric dentistry. Prophylactic materials: fluoride containing products.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Pit and fissure sealants.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Materials for pulpo-dentinal protection, cavity base materials for pediatric dentistry use.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Restorative materials. Materials used for endodontic treatments in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
5	Materials used for cementation of orthodontic appliances. Materials used for prosthodontic treatment in pediatric dentistry (crowns for children).	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Materials used for different orthodontic appliances.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Materials for mouthguards used in sport activities. Impression materials in pediatric	Oral presentation, multimedia, participative	Two hours every week in english.	-	2

dentistry. Generalities about reparation and reconditioning of appliances used in pediatric dentistry.	discourse, argumentation.			
Bibliography 1. SC Leal, EM Takeshita: Pediatric Restorative Dentistry. Springer International Publishing, 2019. 2. Van Noort R: Introduction to Dental Materials. 4th ed. Mosby Elsevier Publishing, Edinburgh, 2016.				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics.	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials used in paediatric dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Friday 12-13

Head of departament

Course coordinator

Practical activities coordinator(s)



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ROMÂNIA
UNIVERSITATEA DE MEDICINĂ,
FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ethics and academic integrity			
2.2 Course coordinator: Șef I dr Sălcudean Andreea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II+III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 1		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
- theoretical and practical aspects specific to the debated issues
- developing the capacity for analysis and synthesis, using terms specific to the topic discussed
6.2 transversal competencies:
- be aware of the importance of academic ethics and integrity
- identify forms of lack of academic honesty
- know the consequences and sanctions of plagiarism or other forms of dishonesty
- identify potential social effects of lack of academic integrity

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Individual development of knowledge regarding ethics and academic integrity

7.2 Specific objectives:

- presentation of the fundamental concepts specific to the field of ethics and academic integrity;
- knowledge and understanding of academic responsibilities and rights
- promoting ethical behaviors and discouraging practices that lack integrity among students
- identifying forms of lack of academic honesty
- awareness of the consequences and sanctions of plagiarism or other forms of dishonesty
- awareness of the social effects of lack of academic integrity

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Ethics and academic integrity - terms and definitions, responsibilities and academic rights	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
2	Intellectual property and copyright	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
3	Lack of academic integrity, examples of dishonest behavior	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
4	Plagiarism. Forms of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
5	Identification of plagiarism. Consequences and sanctions of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
6	Other academic dishonesty	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
7	The social effects of lack of academic integrity	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2

Bibliography

1. Fish, R., Hura, G. 2013 - Students' perceptions of plagiarism, în Journal of the Scholarship of Teaching and Learning, 13 (5), pp. 33 – 45.
2. Ives, B. et al. 2016 - Patterns and predictors of academic dishonesty in Romanian university students, în Higher Education, 74 (5), pp. 815 – 831.
3. McCabe, D.L. 2005 - It takes a village: Academic dishonesty and educational opportunity, în Liberal Education, 91, pp. 26–32.
4. Park, C. 2003 - In Other (People's) Words: plagiarism by university students-literature and lessons, în Assessment & Evaluation in Higher Education, 28 (5), pp. 471 – 488.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The approached topic is updated, taking into account the social or professional context of the future graduate.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade

Evaluation during the semester			
- lecture	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	TBL and tests (10% TBL + 20% ongoing tests)	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	Test	70
- practical final exam	-	-	0
Minimal performance standards: Fulfillment of all school obligations according to the regulations in force. Acquiring knowledge about ethics and academic integrity.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Sălcudean Andreea	Miercuri, 8-10

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anesthesia. Anesthesia and sedation in dental medicine			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I dr Iacob Alina, Asist Univ dr Temistocle Despina, Șef I dr Coșarcă Adina, Șef I dr Petrovan Cecilia			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 10		
- examinations: 10		
- other activities: 5		
3.8 Total hours of individual study: 84		
3.9 Total hours: 154		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: -
4.2 competency: a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: Lecture hall equipped with video projector or other type of multimedia equipment.
5.2 for practical activities: specific materials for performing injections (cartridges with anesthetic substances, gloves, sterile dental syringes, disposable needles, swabs, emergency kit)

6. Specific competencies acquired

6.1 professional competencies: Acquiring knowledge about performing and indications for different techniques of dental/oral anesthesia, and management of accidents and complications in each situation
6.2 transversal competencies: The ability to assess the indication of dental anesthesia for different treatment plans according to clinical findings and to integrate it with a multidisciplinary approach of a patient with specific condition.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Students will learn basic principles of asepsia and antisepsia, anesthetic substances, tools, materials and techniques used in dental loco-regional anesthesia.

7.2 Specific objectives:

Students will be able to perform different techniques of dental (local and regional) anesthesia. They will be also able to recognize, prevent and manage complications and accidents due to dental anesthesia.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Anesthesia - Definitions. History. Particularities of Anesthesia in Dentistry and OMF Surgery. Classification of anesthetic methods used in Dentistry and Oral and Maxillo-facial Surgery	Multimedia and oral presentation	discussions	NA	2
2	The purpose of local anesthesia techniques used in Dentistry. The nervous impulse transmission of pain. Properties of the ideal local anesthetic solution. The secondary actions of local anesthetics.	Multimedia and oral presentation	discussions	NA	2
3	Anatomy of the trigeminal nerve.	Multimedia and oral presentation	discussions	NA	2
4	Techniques of anesthesia in the upper jaw	Multimedia and oral presentation	discussions	NA	2
5	Techniques of anesthesia in the lower jaw	Multimedia and oral presentation	discussions	NA	2
6	Local anesthetic solutions – Classification. Pharmacology	Multimedia and oral presentation	discussions	NA	2
7	Additives (and vasoconstrictors) in local anesthetic solutions (Primary and secondary side effects)	Multimedia and oral presentation	discussions	NA	2
8	Local accidents of dental / oral anesthesia	Multimedia and oral presentation	discussions, case presentation	NA	2
9	Systemic complication of dental / oral anesthesia	Multimedia and oral presentation	discussions, case presentation	NA	2
10	Patients at risk	Multimedia and oral presentation	discussions	NA	2
11	Local anesthesia in children	Multimedia and oral presentation	discussions, case presentation	NA	2
12	General practical aspects	Multimedia and oral presentation	discussions	NA	2
13	General anesthesia – general aspects, particularities, indications in Dentistry and Oral and Maxillo-facial Surgery.	Multimedia and oral presentation	discussions	NA	2
14	Recap	Multimedia and oral presentation	discussions, case presentation	NA	2

Bibliography

1. JA Baart, HS Brand: Local Anaesthesia in Dentistry. Wiley-Blackwell - 2009
2. Iacob Alina and B. Bogozi, A. Coșarcă, A. Ormenișan, C. Petrovan, S. Comișel, D. Szava, R. Grigoraș:

Practical Locoregional Anesthesia In Dentistry And Oral Surgery (Tehnici de anestezie loco-regională în Medicina Dentară și Chirurgia Orală) - Ed. University Press, Tg-Mureș, 2018

3. Iacob Alina, Petrovan Cecilia: Anestezia loco-regională în medicina dentară și chirurgia oromaxilo- facială. Indreptar de lucrări practice pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

4. Petrovan Cecilia, Iacob Alina: Anestezie și sedare în medicina dentară și chirurgia oromaxilofacială. Curs litografiat pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

5. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 Editura 2009 Q Med Publishing București, Cap 1, p1-62

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Anatomy of the trigeminal nerve - upper and lower jaw. Recap	Multimedia and oral presentation	discussions	NA	3
2	Practical aspects of handling specific materials, sterility and using various anesthetic substances	Multimedia and oral presentation	discussions, demonstration	NA	3
3	Theoretical presentation of anesthesia techniques by infiltration	Multimedia and oral presentation	discussions	NA	3
4	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	exercise	NA	3
5	Theoretical presentation of the local anesthetic techniques in the upper jaw	Multimedia and oral presentation	discussions	NA	3
6	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	CBL, exercise	NA	3
7	Theoretical presentation of the local anesthetic techniques in the lower jaw	Multimedia and oral presentation	discussions	NA	3
8	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	exercise	NA	3
9	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
10	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
11	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
12	Exercise of various dental/oral anesthetic techniques	practical demonstration	CBL, exercise	NA	3
13	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
14	Revision	discussion, case debate	exercise	NA	3

Bibliography

1. Hans Evers, Glenn Haegerstam. Introduction to Dental Local Anaesthesia

2. JA Baart, HS Brand: Local Anaesthesia in Dentistry. Wiley-Blackwell - 2009

3. Iacob Alina, Petrovan Cecilia: Anestezia loco-regională în medicina dentară și chirurgia oromaxilo- facială. Indreptar de lucrări practice pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

4. Iacob Alina and B. Bogoz, A. Coșarcă, A. Ormenișan, C. Petrovan, S. Comișel, D. Szava, R. Grigoraș: Practical Locoregional Anesthesia In Dentistry And Oral Surgery (Tehnici de anestezie loco-regională în Medicina Dentară și Chirurgia Orală) - Ed. University Press, Tg-Mureș, 2018

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Basic discipline with high implication in daily dental practice

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0

- practical activities	Practical activity - multiple techniques of anesthetic procedures performed for upper and lower jaw	CBL (15%) no of anesthetic procedures performed (15%)	30
Final evaluation			
- theoretical final exam	knowledge of the bibliographic material	Written examination - Multiple choice questions test	50
- practical final exam	Ability to choose the right anesthetic technique for specific clinical situation	written examination - Multiple choice questions test on a clinical case scenario	20
Minimal performance standards: - minimum grade of 5.0 obtained at the theoretical examination - ability to perform various dental anesthetic procedures in both upper and lower jaws according to treatment plan indications - minimum of 6 dental anesthetic procedures performed during the module			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Ability to perform basic oral/dental anesthetic techniques (infiltration anesthesia, mandibular block), to keep sterility and prevent complications and accidents

13. Appointment timetable (for students)

Şef I dr Iacob Alina	Monday 13.00-14.00

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Technology of dental prostheses (1)			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): Șef I dr Borș Andrea-Izabella			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 24		
- supplemental documentation at the library, from specialized information portals and in the field: 21		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 5		
- examinations: 4		
- other activities: 0		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture hall equipped with multimedia equipment.
5.2 for practical activities:
Specific dental laboratory, working tables, instruments, equipment and various dental materials necessary for the working stages in manufacturing dental prostheses.

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical and practical knowledge using their own experiences in the process of achieving the technologies used in current practice for manufacturing the fixed dental prostheses.
- Acquiring theoretical and practical knowledge regarding the achievement of dental prostheses through various technologies and the appropriate use of the dental materials in this process.
- Students, these future doctors, must know thoroughly and accurately all stages of manufacturing the partial, fixed dental prosthesis, both, the clinical and laboratory phases, therefore they will be able to conceive a correct design of these restorations.

6.2 transversal competencies:

The dentist's supporting team aids in providing oral health services: the students will understand the need for proper and orderly communication with both, dental technicians and dentist or teacher.

The complexity of prosthodontics as well as the scientific and technological progress, makes the field of technology of dental prostheses absolutely necessary to be studied separately, in order to remain an well-defined discipline.

Marketing and the dental laboratory management through the knowledge of equipping, , techniques, classical and modern technologies it will help to achieve appropriate dental prosthesis.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The students will acquire the knowledge on specific technological procedures performed in dental laboratory to achieve dental prostheses in view of prosthetic restorations (C4).

7.2 Specific objectives:

Acquiring theoretical and practical knowledge on the procedures and sequencing for obtaining prosthetic works.

-Acquiring the ability to conceive indirect fixed restorations.

-Acquiring basic skills to perform or correct the laboratory phases in the manufacture of dental prostheses.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Fixed partial dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
2	Dental crowns. The technology for manufacturing metallic crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
3	Dental crowns. The technology for manufacturing polymer-based crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
4	Dental crowns. The technology for manufacturing mixed metal-polymer crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
5	Dental crowns. The technology for manufacturing porcelain-fused-to-metal dental crowns. (PFM's)	Oral and multimedia presentation.	Two hours courses in english.	-	2
6	Dental crowns. The technology for manufacturing full ceramic crowns.	Test	Written test.	-	2
7	Inlays, onlays manufacturing technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
8	Partial crowns manufacturing technologies. Zirconia in technology of dental prosthesis. CAD/CAM technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
9	Dental posts and cores. Technological procedures.	Oral and multimedia presentation.	Two hours courses in english.	-	2
10	Dental bridges: classification, parts and procedure.	Test	Written test.	-	2
11	Manufacturing dental bridges depending on position of missing tooth replaced.	Oral and multimedia presentation.	Two hours courses in english.	-	2
12	Methods and materials for manufacturing pontics.	Oral and multimedia presentation.	Two hours courses in english.	-	2
13	Technological procedures for manufacturing temporary dental bridges.	Oral and multimedia presentation.	Two hours courses in english.	-	2
14	Particular dental bridges.	Oral and multimedia presentation.	Two hours courses in english.	-	2

Bibliography**Required bibliography:**

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A. : Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.

2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

Optional bibliography:

1. Stephen F. Rosenstiel, Martin F. Land, Junhei Fujimoto: Contemporary Fixed Prosthodontics, Fifth Edition, Elsevier, 2016

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of discipline rules for students, evaluation methods and safety rules in the dental office and dental laboratory.	Oral and written presentation.	Students will sign the acknowledgment. They will fill in the laboratory report (LR).	-	4
2	The technology of single unit fixed dental prosthesis.	Practical demonstrations. Taking impressions, mixing plaster and cast pouring.	Students will take impressions on phantoms with teeth prepared for all types of single unit fixed dental prosthesis. They will be graded (LR).	-	4
3	Intracoronar and partial crowns: wax pattern, spruing, investing, casting, divesting, finishing, polishing.	Practical demonstrations.	Students will manufacture the wax pattern for inlays and onlays. They will be graded (LR).	-	4
4	The metallic crown.	Practical demonstration. Manufacturing wax pattern for metallic crown.	Individual waxing the pattern for metallic crown. Grading (LR).	-	4
5	The acrylic crown.	Practical demonstration. Manufacturing wax pattern for acrylic crown.	Individual waxing the pattern for acrylic crown. Grading (LR).	-	4
6	The mixed metal-polymer crowns.	Practical demonstration. Manufacturing wax pattern for acrylic veneered metallic crown.	Individual waxing the pattern for acrylic veneered metallic crown. Grading (LR).	-	4
7	The mixed metal-polymer crowns.	Practical demonstration. Manufacturing the C + B acrylic veneer, direct modeling and thermo-baro polymerization.	Individual manufacturing the C + B acrylic veneer, direct modeling and thermo-baro polymerization. Grading (LR).	-	4
8	Post and cores and substitution crowns	Practical demonstration. Manufacturing wax pattern for post and core and substitution crown.	Individual waxing the pattern for post and core and substitution crown. Grading (LR).	-	4
9	The full ceramic and porcelain fused to metal crowns.	Multimedia presentation of technologies for manufacturing all-ceramic and porcelain fused to metal crowns.	Skills written in LR.	-	4
10	Technology of fixed dental prosthesis.	Practical demonstration.	Students will take impressions on partial edentulous maxillary and mandibular phantoms and will pour impressions. Grading (LR).	-	4
11	Dental bridges with different pontics for different oral topographic areas. The esthetic bridge.	Practical demonstration.	Waxing the pattern for an anterior maxillary bridge with modified ridge lap contact. Grading (LR).	-	4
12	Dental bridges with different pontics for different oral topographic	Practical demonstration.	Waxing the pattern for a lateral maxillary bridge with ovate contact. Grading (LR).	-	4

	areas. The acrylic veneered metallic bridge.				
13	Dental bridges with different pontics for different oral topographic areas. The metallic bridge.	Dental bridges with different pontics for different oral topographic areas. The metallic bridge. Practical demonstration	Waxing the pattern for a lateral mandibular sanitary bridge. Grading (LR).	-	4
14	Revision.	Test	Seminar fixed dental prosthesis.	-	4

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A. : Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.
2. Silas Duarte Jr. Quintessence of Dental Technology 2016, Quintessence Book, 2016.
3. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects through two tests.	Classification based on individual test.	10
- practical activities	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester.	Activity performed in the form of test and exercises during the semester.	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topics.	Written exam as a test.	50
- practical final exam	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester and one question from the semester material.	Practical exam.	20
Minimal performance standards: Obtaining the minimum mark of 5 (five) for each component of the assessment: to know the basics of technology of dental prostheses, not more than 20% unjustified absences and recovered from practical work, to realize the phases of work of basic technical stages.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Tuesday 14-15

Head of departament

Course coordinator

Practical activities coordinator(s)



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1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical semiology. Internal medicine			
2.2 Course coordinator: Conf dr Negovan Anca-Elena			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 1		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 8		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

Pallor
 Cyanosis, cutaneous erythema, rash
 Jaundice
 Bilateral/Unilateral lower limb edema, collateral vein circulation
 Cutaneous bleeding
 Palpation of peripheral adenopathy
 Bronchial syndromes (acute bronchitis, chronic bronchitis, asthma)
 Pulmonary consolidation syndrome
 Respiratory failure
 Patient with coronary syndrome (acute, chronic)
 Patient with valvular cardiomyopathy (mitral, aortic, pulmonary, tricuspid)
 Hypertension syndrome
 Heart failure syndrome.
 Signs, symptoms in peripheral arterial disease
 Signs, symptoms in venous diseases
 Gastro-duodenal ulcer syndrome
 Intestinal syndromes
 Urinary Tract Infection
 Urinary tract obstruction

12. Clinical / practical abilities

The standard history framework
 • General data:
 • Anamnesis:
 o Chief complains: most relevant symptoms
 o Family history:
 Diseases with potential family predisposition/aggregation, genetically transmitted diseases.
 Chronic contagious diseases like: Tuberculosis, HIV, viral hepatitis or other sexually transmitted diseases
 o Personal history:
 Physiologic:
 For female patients: first and last menstruation, number of pregnancies, pathologic events during pregnancies, miscarriages.
 o Pathological history:

Childhood diseases and most important contagious diseases.
 Chronic diseases (it will be asked about arterial hypertension, diabetes)
 Surgical history
 Traumas
 Allergies

o Living conditions: (Diet, working out, occupational status, marital status, living conditions, educational levels)

o Chronic intoxication:

Smoking: how many cigarettes/day, for how long

Alcohol intake

Drugs

o Medication: name, dosage

• History of the present illness-history of the present complaint

o The onset of the problem, the setting in which it has developed, its manifestation.

o For each symptom: the exact nature, location, quality, quantity or severity, the setting in which they occur, timing (including onset, duration and frequency)

o The evolution of the symptoms, investigations, treatments.

o Associated comorbidities.

o Present status: general condition, body temperature and weight, stools, sleeping and appetite.

2. Physical examination:

• General state inspection: -posture/stance; motor activity; facial expression; height weight and built.

• Skin, hair and nail examination: pallor, increased pigmentation, erythema(redness), icterus, cyanosis, edemas, collateral circulation, skin eruptions and lesions.

• Consciousness and state of mind: sleeping disorders; transient loss of consciousness-syncope; prolonged loss of consciousness-coma's; seizures.

• Neurological semiology: tremors and other involuntary movements; voluntary (active) movements; movement coordination; abnormalities of sensation; reflexes, loss of consciousness, convulsions, and comas.

• Lymph nodes semiology: inspection and palpation of the lymph nodes.

•

• Semiology of lips, mouth and pharynx: alteration of lips and mouth in respiratory, cardiovascular, digestive, rheumatologic and metabolic/ nutritional disease; alterations of the mouth in infectious diseases and endocrinological disorders.

• Adipose and muscle system semiology : palpation of the tegument and adipose tissue; muscles examination and semiology.

•

3. Semiology of the respiratory system.

• Particularities of history and common symptoms of respiratory diseases.

• Physical examination of the respiratory system:

-topographic landmarks of the thorax; general inspection, thorax inspection; chest deformities.

-palpation of the chest wall; respiratory expansion (chest wall movements); tactile fremitus/ tactile fremitus alteration (increased, decreased or absent)

-percussion of the chest wall: topographic and comparative

-auscultation of the lungs: normal vesicular sound, bronchial breathing, added sounds (crackles, crepitations or rales)

aking history for cardiovascular diseases

• Clinical examination of cardiovascular system

o General inspection

o Inspection of thorax/precordium

o Palpation of thorax/precordium

o Palpatoric heart added sounds/significance

o Systolic/diastolic palpable murmur (thrill)

o Percussion of precordium

o Auscultation of the heart

The main areas of heart auscultation

Normal heart sounds

Pathological changes of heart sounds

Abnormal rhythms

Arrhythmia

Added heart sounds

• Systolic murmurs

• Diastolic murmurs (topography, radiation area, significance)

- Pericardial rub
- Clinical examination of peripheral arteries (palpation of the pulse, area, characters of the pulse, pathological changes, significance)
- Blood pressure measurement- hypertension, hypotension.
- Clinical examination of veins
- Clinical examination of digestive system :
 - o Inspection of mouth/pharynx
 - o Examining the abdomen
 - Inspection
 - Palpation (technique-superficial, deep palpation)
 - painful area of abdomen
 - topography of abdomen
 - liver palpation (hepatomegaly, significance)
 - palpation of abdominal masses
 - spleen palpation(techniques, significance)
 - percussion of abdomen
 - auscultation of abdomen (bowel sounds, arterial murmurs)
- Physical examination of urinary system:
 - o Renal edema, secondary renal hypertension, anemia
 - o Abdominal examination :
 - Kidney palpation
 - Genitalia examination
 - Kidney auscultation

13. Appointment timetable (for students)

Conf dr Negovan Anca-Elena	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Surgical semiology. General surgery
2.2 Course coordinator: Șef I dr Roșca Ancuța-Noela
2.3 Practical activities coordinator(s):
2.4 Year of study: III 2.5 Semester: 1 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 2		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 2		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 8		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

1. organizing the surgery service 2. drafting / completing the observation sheet and medical documents in surgery 3. knowledge and recognition of surgical semiology 4. examination of the surgical patient 5. knowledge of the notions of asepsis and antisepsis 6. knowledge of surgical instruments 7. knowledge of basic medical-surgical maneuvers (injections, infusions, sutures and surgical knots, incisions, excisions, drainage, urethro-bladder probe, enemas, preparation of the operating field) 8. making a bandage 9. performing cardio-respiratory resuscitation and oxygen therapy maneuvers 10. performing a tracheostomy 11. performing a temporary and definitive hemostasis method 12. performing a puncture and a biopsy

12. Clinical / practical abilities

Achieving minimum practical skills in surgery: 1. organizing the surgery service 2. drafting / completing the observation sheet and medical documents in surgery 3. knowledge and recognition of surgical semiology 4. examination of the surgical patient 5. knowledge of the notions of asepsis and antisepsis 6. knowledge of surgical instruments 7. knowledge of basic medical-surgical maneuvers (injections, infusions, sutures and surgical knots, incisions, excisions, drainage, urethro-bladder probe, enemas, preparation of the operating field) 8. making a bandage 9. performing cardio-respiratory resuscitation and oxygen therapy maneuvers 10. performing a tracheostomy 11. performing a temporary and definitive hemostasis method 12. performing a puncture and a biopsy

13. Appointment timetable (for students)

Şef I dr Roşca Ancuța-Noela

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occlusology			
2.2 Course coordinator: Conf dr Biriş Carmen-Ioana			
2.3 Practical activities coordinator(s): Conf.Dr. Biriş Carmen Ioana			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 16		
- supplemental documentation at the library, from specialized information portals and in the field: 24		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 16		
- tutorial activities: 0		
- examinations: 3		
- other activities: 10		
3.8 Total hours of individual study: 69		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: conform curiculei
4.2 competency: cunostinte teoretice si practice aplicate pentru functionarea optima a sistemului oro facial

5. Conditions

5.1 for lectures: Power point,interactiv, discutii libere
5.2 for practical activities: activitati practice asociate cu teorie

6. Specific competencies acquired

6.1 professional competencies: aplicarea cuostintelor acumulate in toate domeniile stomatologiei
6.2 transversal competencies: depistarea si diagnosticarea corecta, urmata de un plan de tratament corespunzator , a afectiunilor sistemului oro- facial cu consecinte asupra intregului organism
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: cunoasterea anatomiei capului si gatului, morfologiei dentare
7.2 Specific objectives: asocierea elementelor de morfologie si functionalitate a sistemului oro facial

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to the physiology of the stomatognathic system	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
2	The oro facial system (OFS), particularities and means of self-defense	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
3	Essential functions of SOF	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
4	Anthropometric points and plans	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
5	Determinants of occlusion	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
6	The anterior determinant of occlusion (dental)	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
7	The posterior determinant of occlusion (articular). The temporomandibular joint (TMJ) - components	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
8	The neuromuscular functional determinant. Masticatory muscles	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
9	Reference positions of the mandible (Rest position, Maximum intercuspation, Centric Relation)	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
10	test	-	-	-	2
11	Mandibular Kinematic. Analysis of mandibular movements in sagittal, transversal, frontal planes. Functional occlusion	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
12	Occlusal concepts and theories. Gnathological aspects in prosthetic treatment	lecture, systematic and interactive display of information, conversation, power point presentation	-	-	2
13	Principles and types of articulators and cast holders. Face bows and jaw	lecture, systematic and interactive display of information,	-	-	2

	registration	conversation, power point presentation			
14	test	-	-	-	2
Bibliography Occlusion in Prosthodontic; Carmen Ioana Biris, Diana Cerghizan, Janosi Kinga Maria					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline, of the dental equipment. Training on occupational safety in the dental office. Introductory notions of patient examination.	Presentation	-	-	2
2	2 Impression of dental arches. Casting models.	Presentation	-	-	2
3	3 Impression of dental arches. Casting models.	Presentation	-	-	2
4	Static examination of the occlusion in the three planes. Occlusion curves.	CBL. Study model analysis	-	-	2
5	Static examination of the occlusion in the three planes. Occlusion curves.	Study model analysis	-	-	2
6	Clinical examination in occlusology. Case presentation.	Presentation and practical applications.	-	-	2
7	Clinical examination of the musculoskeletal system of the oro-facial system (OFS).	Practical application.	-	-	2
8	Clinical examination of the temporomandibular joint (TMJ)	Practical application.	-	-	2
9	Clinical examination of the fundamental positions of the mandible. Resting position, centric relationship (CR) and maximum intercuspation (MI). The landmarks of point-centric, long-centric and freedom in centric.	CBL. Practical application.	-	-	2
10	Clinical examination of mandibular kinematics in the three spatial planes (sagittal, transversal, horizontal). Recording of the intermaxillary relations with the help of the facial bow.	Practical application.	-	-	2
11	Clinical examination of mandibular kinematics in the three spatial planes (sagittal, transversal, horizontal). Recording of the intermaxillary relations with the help of the facial bow.	Practical application.	-	-	2
12	Mounting the models in the articulator.	Practical application.	-	-	2
13	Occlusal rebalancing therapy by selective grinding.	CBL. Practical application.	-	-	2
14	Occlusal rebalancing therapy by selective grinding.	Practical application.	-	-	2

Bibliography
 1. Okeson JP: Management of Temporomandibular Disorders and Occlusion. 7th Edition, Mosby, 2012
 2. PA notes
 3. Carmen Ioana Biris, Diana Cerghizan, Janosi Kinga Maria: Occlusion Prosthodontic, University Press, Tg. Mures, 2020

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

disciplina este punct cheie in homeostazia intregului organism

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Minimum standard of performance: Obtaining a minimum grade of 5 (five) for each component of the assessment requires:	test	20

	Lecture: 1. To know the basic notions regarding: - the fundamental positions of the mandible, - mandibular kinematics, - principles of use of articulators, - indications and contraindications for selective grinding. 2. To support and promote TBL sessions		
- practical activities	Minimum standard of performance: Obtaining a minimum grade of 5 (five) for each component of the assessment requires: Practical works*: 1. To perform the static occlusion examination, 2. The dynamic occlusion examination is performed, 3. Carry out a recording of the intermaxillary relations with the facial bow, 4. Perform a clinical examination of the fundamental positions of the mandible, 5. To identify the correct occlusal (dento-dental) contacts and occlusal interferences. 6. Participate and promote CBL sessions.	test	20
Final evaluation			
- theoretical final exam	Obtaining a minimum grade of 5 (five)	test	50
- practical final exam	Obtaining a minimum grade of 5 (five)	test	10
Minimal performance standards: 5(five)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Biriş Carmen-Ioana	marti 14-16

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Preventive dentistry (2)			
2.2 Course coordinator: Șef I dr Tohati Adrian-Roland			
2.3 Practical activities coordinator(s): Șef I dr Tohati Adrian-Roland Șel I dr Beresescu Liana Șel I dr Petcu Blanka Asist univ dr Bechir Farah			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 42		
- supplemental documentation at the library, from specialized information portals and in the field: 28		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 3		
- examinations: 4		
- other activities: 7		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: video-projector, laptop
5.2 for practical activities: dental units, handpieces, various consumables

6. Specific competencies acquired

6.1 professional competencies: The student must be able to know the different techniques of professional hygiene and supra- and subgingival scaling as well as the techniques of sealing pits and fissures.
6.2 transversal competencies: The student must know the rules of occupational safety, the risks of possible nosocomial infections and develop the ability to work in a team with colleagues, doctors and nurses.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning and performing descaling, professional sanitation and sealing pits and fissures.

7.2 Specific objectives:

Knowledge and deep knowledge of different methods and techniques of scaling, professional brushing and sealing

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental calculus: definition, classification, structure	Oral and multimedia presentation	no	no	2
2	Dental calculus: formation, attachment	Oral and multimedia presentation	no	no	2
3	Dental calculus: marginal calculus-periodontium relationship, pathogenicity	Oral and multimedia presentation	no	no	2
4	Manual supragingival scaling: instruments, techniques	Oral and multimedia presentation seminar	no	no	2
5	Manual supragingival scaling: instruments, techniques	Oral and multimedia presentation	no	no	2
6	Sonic and ultrasonic scaling: general principles, indications and contraindications	Oral and multimedia presentation	no	no	2
7	Ultrasonic scaling: technique, accidents and complications	Oral and multimedia presentation	no	no	2
8	Materials for sealing pits and fissures	Oral and multimedia presentation	no	no	2
9	Sealing techniques and evaluation of sealing efficiency	Oral and multimedia presentation	no	no	2
10	Halitosis	Oral and multimedia presentation	no	no	2
11	Acid dental erosion	Oral and multimedia presentation	no	no	2
12	Prophylaxis of malignancies with oral localization	Oral and multimedia presentation	no	no	2
13	Reversible carious lesions	Oral and multimedia presentation	no	no	2
14	Dentinal hypersensitivity. Prevention and treatment	Oral and multimedia presentation	no	no	2

Bibliography

1. Clinical Periodontology; Carranza, 9th Edition, 2002
2. Primary Preventive Dentistry; Norman O. Harris, 8th Edition, 2009
3. Course notes
4. Concepts in Preventive Dentistry; Tohati A., Bechir F., 2019

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Demonstration of the manual supragingival scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
2	Demonstration of the manual supragingival scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
3	Performing manual scaling on patients	Practical demonstrations	nu e cazul	nu e cazul	4

4	Performing manual scaling on patients	Practical demonstrations	nu e cazul	nu e cazul	4
5	Demonstration of the ultrasonic scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
6	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
7	Performing the ultrasonic scaling technique on patients	CBL session	nu e cazul	nu e cazul	4
8	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
9	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
10	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
11	Demonstration of sealing techniques	Practical demonstrations	nu e cazul	nu e cazul	4
12	Performing sealing on patients	Practical demonstrations	nu e cazul	nu e cazul	4
13	Performing sealing on patients	Practical demonstrations	nu e cazul	nu e cazul	4
14	Performing a complete oral prophylaxis session on the patient	Practical demonstrations	nu e cazul	nu e cazul	4

Bibliography

Concepts in Preventive Dentistry; Tohati A., Bechir F., 2019

Primary Preventive Dentistry; Norman O. Harris, 8th Edition, 2009

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant for the practical activity - scaling, professional brushing, sealing being very current methods in modern dental treatment.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	seminar	written exam	20
- practical activities	CBL session	practical evaluation	10
Final evaluation			
- theoretical final exam	sumative exam	MCQ	60
- practical final exam	practical examination	presentation	10

Minimal performance standards:

Minimal performance standards:

Minimum performance standard: The student must practically perform ultrasonic and manual scaling, preventive sealing of the pits and occlusal fissures, as well as design and perform a complete oral prophylaxis session.

-To validate the evaluations, the grade of each component that is included in the calculation of the final grade must be at least 5.

- the minimum conditions for admission to the final examination require the completion of a number of 3 ultrasonic or manual scalings as well as the sealing of a number of 2 teeth.

-No more than 2 absences are allowed for the activity of practical works.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Tohati Adrian-Roland	Friday 18-19

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Technology of dental prostheses (2)			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): Șef I dr Borș Andrea-Izabella			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 25		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 5		
- examinations: 4		
- other activities: 0		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture hall equipped with multimedia equipment.
5.2 for practical activities:
Specific dental laboratory, working tables, instruments, equipment and various dental materials necessary for the working stages in manufacturing dental prostheses.

6. Specific competencies acquired

6.1 professional competencies:
-Acquiring theoretical and practical knowledge using their own experiences in the process of achieving the technologies used in current practice for manufacturing the mobile and mobilized dental prostheses.
- Acquiring theoretical and practical knowledge regarding the achievement of dental prostheses through various technologies and the appropriate use of the dental materials in this process.
-Students, these future doctors, must know thoroughly and accurately all stages of manufacturing the partial and complete removable dentures, both, the clinical and laboratory phases, therefore they will be able to conceive a correct design of these restorations.

6.2 transversal competencies:

- The dentist's supporting team aids in providing oral health services: the students will understand the need for proper and orderly communication with both, dental technicians and dentist or teacher.
- The complexity of prosthodontics as well as the scientific and technological progress, makes the field of technology of dental prostheses absolutely necessary to be studied separately, in order to remain an well-defined discipline.
- Marketing and the dental laboratory management through the knowledge of equipping, , techniques, classical and modern technologies it will help to achieve appropriate dental prosthesis.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

The students will acquire the knowledge on specific technological procedures performed in dental laboratory to achieve dental prostheses in view of prosthetic restorations (C4).

7.2 Specific objectives:

- Acquiring theoretical and practical knowledge on the procedures and sequencing for obtaining prosthetic works.
- Acquiring the ability to conceive mobile and mobilized restorations.
- Acquiring basic skills to perform or correct the laboratory phases in the manufacture of dental prostheses.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Mobile dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
2	Complete denture: technology and manufacturing phases.	Oral and multimedia presentation.	Two hours course in english.	-	2
3	Complete denture manufacturing steps: the primary impression and the primary cast.	Oral and multimedia presentation.	Two hours course in english.	-	2
4	Complete denture manufacturing steps: the special tray.	Oral and multimedia presentation.	Two hours course in english.	-	2
5	Complete denture manufacturing steps: the functional impression and master cast.	Oral and multimedia presentation.	Two hours course in english.	-	2
6	Complete denture manufacturing steps: the occlusion rim.	Oral and multimedia presentation.	Two hours course in english.	-	2
7	Complete denture manufacturing steps: wax-up and packing methods.	Test.	Evaluation.	-	2
8	Achieving acrylic based complete denture in practice. Modern technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
9	Relining, rebasing and optimising complete dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
10	Removable partial dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
11	The technology of manufacturing acrylic based removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
12	The technology of manufacturing metal framed removable partial dentures.	Test.	Evaluation.	-	2
13	Stability, support and maintenance systems for removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
14	Modern technologies of manufacturing and optimizing removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2

Bibliography**Required bibliography:**

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A.: Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.

2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

Optional bibliography:

1. Stephen F. Rosenstiel, Martin F. Land, Junhei Fujimoto: Contemporary Fixed Prosthodontics, Fifth Edition, Elsevier, 2016

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The technology of complete dentures. The impression and the primary cast.	Practical demonstration, complete edentulous phantom impressions and pouring casts.	Students will take impressions on edentulous phantoms and will pour primary casts. Grading (LR).	-	4
2	The technology of complete dentures. Manufacturing shellac base special tray.	Practical demonstration, upper and lower shellac special tray.	Manufacturing shellac special tray. Grading (LR).	-	4
3	The technology of complete dentures. Manufacturing self curing acrylic special tray.	Practical demonstration, self curing acrylic special tray.	Manufacturing self curing acrylic special tray. Grading (LR).	-	4
4	The technology of complete dentures. Manufacturing occlusion rims.	Practical demonstration, occlusion rims.	Manufacturing occlusion rims. Grading (LR).	-	4
5	The technology of complete dentures. Evaluation of acquired information.	Practical demonstration, mounting casts in articulator.	Mounting casts in articulator. Grading (LR).	-	4
6	The technology of complete dentures: modeling wax pattern, mounting teeth, denture processing.	Practical demonstration, modeling wax pattern, mounting teeth, denture processing.	Modeling wax pattern, mounting teeth for complete dentures.. Grading (LR).	-	4
7	The technology of complete dentures. Denture processing for acrylic based complete dentures.	Practical demonstration . for acrylic based complete denture processing.	Multimedia presentation of the clinical and technological stages steps in manufacturing complete dentures. (LR).	-	4
8	The technology of acrylic based removable partial dentures.	Practical demonstration, partial edentulous phantom impressions and pouring casts.	Partial edentulous phantom impressions and pouring casts. Grading (LR).	-	4
9	The technology of acrylic based removable partial dentures.	Practical demonstration, wax pattern for acrylic based removable partial denture, including wired clasps.	Modeling wax pattern for acrylic based removable partial denture. Grading (LR).	-	4
10	Modern technologies in manufacturing acrylic based removable partial dentures. Evaluation of acquired information through test.	Educational video.	Grading, seminar(LR).	-	4
11	The technology of metallic framed removable partial dentures (Skeletal RPD).	Practical demonstration with manufacturing metallic based removable partial dentures.	Written skills in LR.	-	4
12	The technology of metallic framed removable partial dentures (Skeletal RPD).	Practical demonstration, manufacturing wax pattern for metallic based removable partial dentures with preformed wax elements.	Manufacturing wax pattern for metallic framed removable partial dentures using preformed wax elements . Grading (LR).	-	4
13	The technology of metallic framed removable partial dentures (Skeletal RPD).	Multimedia presentation about modern technologies in manufacturing RPDs.	Written skills in LR.	-	4
14	Review, recovering. Evaluation of acquired knowledge.	Oral and individual test.	Seminar RPDs. Grading (LR).	-	4

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A.: Technology of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.
2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects through two tests.	Classification based on individual test.	10
- practical activities	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester.	Activity performed in the form of test and exercises during the semester.	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topics.	Written exam as a test.	50
- practical final exam	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester and one question from the semester material.	Practical exam.	20
Minimal performance standards: Obtaining the minimum mark of 5 (five) for each component of the assessment: to know the basics of technology of dental prostheses, not more than 20% unjustified absences and recovered from practical work, to realize the phases of work of basic technical stages.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	Tuesday 14-15

Head of department

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical semiology. Internal medicine			
2.2 Course coordinator: Prof dr Tilinca Mariana-Cornelia			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 7		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 50		
3.9 Total hours: 106		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

Resuscitation, monitoring vital parameters in acute cardiovascular event, Short-term strategy in severe anemia, acute respiratory failure, HDS maneuvers, therapeutic strategies and maneuvers in life threatens arrhythmias

12. Clinical / practical abilities

Performing the anamnesis of the adult patient
 Performing the general objective examination of the adult patient
 Evaluation of adult nutrition
 Enumeration and hierarchy of differential diagnoses
 Enumeration and support of the elements of the positive diagnosis
 Oxygen administration
 Temperature monitoring, TA, EKG, AV, SaO2
 Observation and description of arterial catheter mounting
 Observation and description of the insertion of the transvenous temporary pacemaker
 Observation and description of defibrillation and cardioversion
 Observation and description of the exercise test
 Observation and description of osteomedullary biopsy
 Performing and interpreting EKG
 Interpretation of the written results of Holter EKG monitoring
 Performing and interpreting the summary urine test
 Interpretation of written results of dosing of chemical components in the blood
 Interpretation of simple radiography
 CT interpretation
 Interpretation of ultrasound
 Interpretation of written ultrasound results
 Interpretation of the written results of cardiac and Doppler ultrasound
 Interpretation of angiography
 Interpretation of the written results of angiography
 Interpretation of the written results of non-invasive vascular examinations
 Completing the anamnesis and the objective examination in the medical documents
 Recording the patient's evolution in the observation sheet
 Writing the epicrisis
 Writing the medical letter
 Oral presentation of cases
 Presentation of written cases / poster

13. Appointment timetable (for students)

Prof dr Tilinca Mariana-Cornelia	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Conservative dentistry (simulation)			
2.2 Course coordinator: Prof dr Monea Monica-Dana			
2.3 Practical activities coordinator(s): Asist.univ.drd. Dako Timea			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 60		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 3		
- examinations: 4		
- other activities: 5		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, laptop
5.2 for practical activities:
Phantom, hand pieces, burs, endodontic files

6. Specific competencies acquired

6.1 professional competencies:
Knowledge about tooth structure, hard dental tissue histology, and decay etiopathogenic mechanism. Morphopathological changes description and clinical aspects in dental carious lesion. Knowledge about investigation and diagnosis methods. Knowledge about cavity preparation.
6.2 transversal competencies:
Knowledge about chronological steps in dental treatment, and how to chose the appropriate dental material for best treatment results, for

each clinical case. Helping the student to realize the importance of periodical updating with literature resources, in order to elevate theoretical and practical knowledge. The importance of doctor-patient relation, such as the treatment should meet the patient's expectations.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
Study of dental pathology, based on most recent fundamental and applicative research

7.2 Specific objectives:
Correlation between lectures and practical part, focused on etiology and treatment of dental carious lesion.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to operative dentistry, general considerations, epidemiology	Multimedia and oral presentation	-	-	2
2	Hard dental structures and carious lesion	Multimedia and oral presentation	-	-	2
3	Nutrients in the etiopathogenesis of dental carious lesion	Multimedia and oral presentation	-	-	2
4	Saliva (buccal liquid)	Multimedia and oral presentation	-	-	2
5	Etiology of dental caries: pathogenic bacterial plaque	Multimedia and oral presentation	-	-	2
6	Explosive carious lesion. Caries on root surfaces	Multimedia and oral presentation	-	-	2
7	Treatment principles in dental carious lesions	Multimedia and oral presentation	-	-	2
8	Morphopatology of carious lesion	Multimedia and oral presentation	-	-	2
9	Classification and diagnosis of simple carious lesions	Multimedia and oral presentation	-	-	2
10	Direct and indirect pulp capping procedures	Multimedia and oral presentation	-	-	2
11	Pain in carious lesion treatment	Multimedia and oral presentation	-	-	2
12	Secondary decay and recurrent carious lesion	Multimedia and oral presentation	-	-	2
13	Cavity preparation technique	Multimedia and oral presentation	-	-	2
14	Isolation of the operating field	Multimedia and oral presentation	-	-	2

Bibliography

1. Theodore M. Roberson, Harald O. Hezmann, Edward J. Swift: Sturdevant's Art and Science in Operative Dentistry 4th edition, Mosby, 2002
2. Ole Fejerskov, Edwina A.M. Kidd: Dental Caries- the disease and its clinical management, Blackwell Munksgaard, 2003

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Instruments and equipment for tooth preparation	Multimedia presentation and practical activity	-	-	4
2	Black's principles for cavity preparation	Multimedia presentation and practical activity	-	-	4
3	Class I cavity preparation	Multimedia presentation and practical activity	-	-	4
4	Class II cavity preparation	Multimedia presentation and practical activity	-	-	4
5	Class III cavity preparation	Multimedia presentation and practical activity	-	-	4
6	Class IV cavity preparation	Multimedia presentation and practical activity	-	-	4
7	Class V cavity preparation	Multimedia presentation and practical activity	-	-	4
8	Class VI cavity preparation	Multimedia presentation and practical activity	-	-	4
9	Cavity preparation - review	CBL. Multimedia presentation and practical activity	-	-	4
10	Teeth separation	Multimedia presentation and practical activity	-	-	4
11	Isolation of operating site	CBL. Multimedia presentation and practical activity	-	-	4
12	Instruments for endodontic treatment	Multimedia presentation and practical activity	-	-	4
13	Matrix and matrix bands	Multimedia presentation and practical activity	-	-	4
14	Temporary and long-term coronal restorations	Multimedia presentation and practical activity	-	-	4
Bibliography 1. Theodore M. Roberson, Harald O. Hezmann, Edward J. Swift: Sturdevant's Art and Science in Operative Dentistry 4th edition, Mosby, 2002 2. Ole Fejerskov, Edwina A.M. Kidd: Dental Caries- the disease and its clinical management, Blackwell Munksgaard, 2003					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According to specific aspects of the subject	CBL	30
Final evaluation			
- theoretical final exam	According to specific aspects of the subject	Multiple choice test (written exam)	50
- practical final exam	According to specific aspects of the subject	Practical examination, oral presentation/ written exam	20

Minimal performance standards:

A grade of minimum 5.00 both in theoretical and practical examination, final average above 4.50.

Basic knowledge of the aspects that were studied is required.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Monea Monica-Dana

Monday between 12-13 o'clock.

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dermatology			
2.2 Course coordinator: Conf dr Fekete Gyula-Laszlo			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 4		
- examinations: 4		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Conf dr Fekete Gyula-Laszlo	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Prosthodontics (simulation)			
2.2 Course coordinator: Șef I dr János Kinga-Mária			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr János Kinga-Mária	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Surgical semiology. General surgery
2.2 Course coordinator: Șef I dr Roșca Ancuța-Noela
2.3 Practical activities coordinator(s):
2.4 Year of study: III 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 1		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 11		
3.9 Total hours: 67		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

Abdominal wall pathology – inguinal hernia, femoral hernia, umbilical hernia, incisional hernia. Recognize and treat strangulated hernia. Diagnosis and management, including operative management of primary and recurrent abdominal wall hernia.

- o Thyroid pathology – goiter, thyroid nodule
- o Breast pathology – breast cancer, breast fibroadenoma
- o Esophagus pathology – esophageal cancer, hiatal hernia
- o Stomach & duodenum pathology – Upper digestive bleedings. Operative management of cases with upper digestive bleedings where endostasis has failed. Gastric cancer
- o Surgery of obesity – bariatric surgery
- o Small intestine pathology – small intestine occlusion
- o Large bowel pathology – colorectal cancer
- o Anoperineal pathology – hemorrhoids, anal fissure, fistula-in-ano
- o Liver pathology – tumors of the liver
- o Biliary tract pathology – gall bladder lithiasis, CBD lithiasis, mechanical jaundice
- o Pancreas pathology – acute pancreatitis, cancer of the pancreas
- o Intestinal occlusion – large bowel occlusion (colon cancer)
- o Thoracic pathology – pleural effusion

12. Clinical / practical abilities

Achieving minimal practical skills in surgery:

- o Oral communication with the patient, medical and administrative staff:
 - To communicate with the patient during examinations and treatment
 - To record the history and informed consent
 - To make recommendations, advices, and patient education
 - To explain to the patients the effects of treatment, possible side effects and the importance of timing and compliance with the treatment
 - To participate in group activities and teamwork
 - To orally present cases and issues
 - To formulate opinions and recommendations
 - To relate and effectively collaborate
 - To react appropriately emotional / empathetic to the problems
- o Written communication:
 - To make records of clinical history and physical exam
 - To record the patient's evolution
 - To draft the epicrisis and medical letters

- To fill out hospital forms and records
- o To make a correct clinical examination:
 - To make a correct anamnesis of the adult patient
 - To do a general and local clinical examination of the adult patient upon systems and organs
- o To make a fair diagnosis
- o To know the laboratory tests and investigations for specific diseases:
 - To know the normal values of tests
 - To be able to interpret and explain the lab tests
 - To be able to make the difference between important and irrelevant information
- o To interpret accurately and efficiently the data:
 - to list and order by priority the differential diagnoses
 - to list and sustain elements of positive diagnosis
 - to list and discuss rare pathological conditions, but with a possible vital impact for patient
 - To identify and differentiate between emergency situations, acutizations of chronic conditions and serious chronic diseases, or with poor prognosis
 - To identify situations where a further consultation or specialized investigations are needed
 - To discuss clinical cases and information / medical records with the medical team members, evaluates his work and identifies his professional and personal development needs
- o Decision-making and case management:
 - To critically evaluate the diagnostic and tests
 - To identify therapeutic objectives and priorities for various stages of evolution of the patient's condition
 - To discuss the diagnosis, the treatment options, the response to treatment, the disease progression, and the prognosis
 - To do therapeutic prescriptions correctly
 - To correctly evaluate the risk / benefit of the treatment
- o Disease prevention and health promotion
 - To recommend investigations and treatment with minimal risk to the patient 'Primum non nocere'
 - To apply general and specific measures to prevent the occurrence and spread of infection
 - To discuss with the patient, his family and the persons or institutions interested in the risk factors for disease and how they might be influenced
 - To know and correctly recommends programs to prevent illness or screening for major diseases
- o Critical assessment (evidence-based medicine) / efficient use of resources:
 - To critically evaluate data, information, and records in medical and academic situations
 - To critically evaluate the literature to assess the benefits and risks of preventive measures, diagnostic and therapeutic
- o To use the computer for information, registration of patient's data and communication
- o To apply the principles of EBM in basic research and in clinical practice

13. Appointment timetable (for students)

Şef I dr Roşca Ancuţa-Noela

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Odontotherapy			
2.2 Course coordinator: Șef I dr Hănțoiu Tudor-Alexandru			
2.3 Practical activities coordinator(s): Șef I dr Hănțoiu Tudor-Alexandru			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 35		
- supplemental documentation at the library, from specialized information portals and in the field: 25		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 20		
- tutorial activities: 6		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, laptop
5.2 for practical activities:
Dental Units, High/Low speed dental pieces, different types of dental burs

6. Specific competencies acquired

6.1 professional competencies:
The student must learn the examination and diagnostic methods used for dental caries; thorough knowledge regarding the conservative treatment of dental caries and best treatment options for deep cavities, in order to preserve the vitality of dental pulp. They have to acquire theoretical and technical skills in order to use composite resins for coronal restorations. Development of complex treatment plans.
6.2 transversal competencies:
Development of interdisciplinary collaboration, especially with Prosthetics and Orthodontics, in order to solve difficult cases.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Acquire of theoretical and practical knowledge regarding the etiology and treatment methods used in dental caries. The correct use of composite resins.

7.2 Specific objectives:
 Extensive knowledge and practical skills required for the treatment of dental caries.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General information regarding esthetic restorations	Multimedia and oral presentation	-	-	2
2	Clinical aspects important in esthetic restoration	Multimedia and oral presentation	-	-	2
3	Frequent clinical problems during esthetic restorations	Multimedia and oral presentation	-	-	2
4	Use of composite resins for class III, IV and V cavities restoration	Multimedia and oral presentation	-	-	2
5	Clinical steps in direct composite restorations for class III cavities	Multimedia and oral presentation	-	-	2
6	Clinical steps in direct composite restorations for class IV cavities	Multimedia and oral presentation	-	-	2
7	Clinical steps in direct composite restorations for class V cavities	Multimedia and oral presentation	-	-	2
8	Use of composite resins for class I, II and VI cavities restoration	Multimedia and oral presentation	-	-	2
9	Clinical steps in direct composite restorations of class I and VI micro cavities	Multimedia and oral presentation	-	-	2
10	Clinical steps in direct composite restorations of class I cavities.	Multimedia and oral presentation	-	-	2
11	Clinical steps in direct composite restorations of class II cavities	Multimedia and oral presentation	-	-	2
12	Clinical steps in direct composite restorations of large class II cavities.	Multimedia and oral presentation	-	-	2
13	Clinical evaluation of direct composite restorations	Multimedia and oral presentation	-	-	2
14	Laser in odontal treatment	Multimedia and oral presentation	-	-	2

Bibliography

1. Tudor Hânțoiu, Monica Monea. Odontotherapy, Lecture notes, UMFST, 2020.
2. Sturdevant's Art and Science of Operative Dentistry, 6th edition, Heymann HO, Swift EJ, Ritter AV, Elsevier, 2013.

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Identifying carious lesions, Filling in the clinical Chart	Multimedia presentation, clinical cases, practical demonstrations	-	-	4
2	Diagnostic methods used in dental caries	Multimedia presentation, clinical cases, practical demonstrations	-	-	4
3	Vitality testing	Clinical training	-	-	4

4	Radiographic evaluation in dental caries	Clinical training	-	-	4
5	Indirect pulp capping	CBL. Clinical training	-	-	4
6	Direct pulp capping	Clinical training	-	-	4
7	Class III and IV dental cavities treatment with composite resins	Clinical training	-	-	4
8	Class V and VI dental cavities treatment with composite resins	Clinical training	-	-	4
9	Class I and II dental cavities treatment with composite resins	Clinical training	-	-	4
10	Noncarious lesions treatment	CBL. Clinical training	-	-	4
11	Treatment of dental hypersensitivity	Clinical training	-	-	4
12	Use of magnification in odontotherapy	Clinical training	-	-	4
13	Minimal invasive treatment of early carious lesions	Clinical training	-	-	4
14	Composite resins restorations - quality evaluation	Multimedia presentation, clinical cases, practical demonstrations	-	-	4
Bibliography Tudor Hăntoșiu, Monica Monea. Odontotherapy, Lecture notes. UMFST, 2020.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According to specific aspects of the subject	CBL	30
Final evaluation			
- theoretical final exam	According to specific aspects of the subject	Multiple choice questions/ written exam	50
- practical final exam	According to specific aspects of the subject	Case presentation/ written exam	20
Minimal performance standards: Minimal performance standards: Minimal grade for multiple choice test and for practical exam needs to be 5.00. The final average must be at least 4.50. The ability to identify simple carious lesions, to reach the correct diagnosis and to apply the necessary therapeutic measures. Minimal requirements: - Coronal restorations of class I and II cavities (2) - Coronal restorations of class III-V cavities (2)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Hănţoiu Tudor-Alexandru	Tuesday between 13-14 o'clock.

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endodontics (1)			
2.2 Course coordinator: Șef I dr Kovács-Ivacson Andrea-Csinszka			
2.3 Practical activities coordinator(s): Vacant			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 35		
- supplemental documentation at the library, from specialized information portals and in the field: 25		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 20		
- tutorial activities: 6		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: videoprojector, laptop
5.2 for practical activities: dental units, handpieces, consultation kit, hand instruments, dental materials

6. Specific competencies acquired

6.1 professional competencies: Acquiring knowledge related to the etiology, diagnosis and treatment of acute and chronic pulp inflammations. Knowledge of examination methods and therapeutic possibilities applicable in the case of inflammation of the dental pulp, with the objective of keeping the tooth on the arch. Familiarizing the student with different methods and materials of root obturation used in endodontic therapy, acquiring the necessary knowledge to establish the correct diagnosis and treatment plan. A special emphasis will be placed on the knowledge of iatrogenic factors and their elimination from the practical activity.
6.2 transversal competencies: Developing collaboration with other specialties within dental medicine, especially Prosthetics and Orthodontics, to

solve complex cases. Knowing the implications that endodontic treatment has on the body as a whole and learning how to work in a team with specialist doctors from other medical fields. The formation of complex teams of specialists, which must also include the family doctor, in order to determine the appropriateness of endodontic treatment in sick patients.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquisition of theoretical and practical notions related to the etiology and treatment of inflammatory complications of carious lesions.

7.2 Specific objectives:

Acquiring practical treatment skills in acute and chronic pulpitis. Different treatment techniques (manual and rotary) and root filling.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Notions of dental pulp morphophysiology	Oral presentation	-	-	2
2	Histopathological characteristics of the dental pulp	Oral presentation	-	-	2
3	Functions of the dental pulp	Oral presentation	-	-	2
4	Etiopathology of pulpal inflammation	Oral presentation	-	-	2
5	Anatomo-clinical forms of acute pulpal inflammations	Oral presentation	-	-	2
6	Anatomo-clinical forms of chronic pulpal inflammations	Oral presentation	-	-	2
7	Dentinal hypersensitivity and hyperesthesia	Oral presentation	-	-	2
8	Participation of immune mechanisms in pulpo-periapical pathology	Oral presentation	-	-	2
9	Treatment of acute pulpal inflammations	Oral presentation	-	-	2
10	Treatment of chronic pulpal inflammations	Oral presentation	-	-	2
11	Biological methods of preservation of the dental pulp	Oral presentation	-	-	2
12	Methods of partial preservation of pulp tissue	Oral presentation	-	-	2
13	Internal anatomy of teeth	Oral presentation	-	-	2
14	Vital and non-vital pulp extirpation	Oral presentation	-	-	2

Bibliography

Arnaldo Castellucci: endodontics, vol 1 and vol 2

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Use of examination tools	Clinical activity	-	-	4
2	Completing the treatment sheet, identifying carious lesions	Clinical activity	-	-	4

3	Diagnostic methodology in simple caries	Clinical activity	-	-	4
4	Cavity preparation in case of simple carious lesions	Clinical activity	-	-	4
5	Diagnostic methodology in case of complicated caries	Clinical activity	-	-	4
6	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
7	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
8	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
9	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
10	Complementary examination methods	Clinical activity	-	-	4
11	Complementary examination methods	Clinical activity	-	-	4
12	Absolute isolation- the usage of rubber dam	Clinical activity	-	-	4
13	Indirect pulp capping	Clinical activity	-	-	4
14	Direct pulp capping	Clinical activity	-	-	4

Bibliography

1. Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg. Mures, 2015.
2. Iliescu A.: Tratat de endodonție, vol.I, Ed. Medicală, București, 2014.
3. Iliescu A., Gafar M.: Cariologie și odontoterapie restauratoare, Ed. Medicală, București, 2003.
4. Odontologie. Îndreptar de lucrări practice, Litografia UMF Tg. Mureș, 2004.
5. Pop Mihai, Monea Monica, Kovács Mónika, Buka Imola, Bukhari Csilla, Ivácson Csinszka: Alapfogalmak Endodonciában, Ed. University Press, UMF Tg. Mures, 2015.
6. Fazekas Árpád: Megtartó fogászat és endodoncia, Semmelweis Kiadó, Budapest, 2006.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By acquiring the knowledge offered by this discipline, the graduate will be able to respond professionally to the requirements raised by the practical activity.

They perfect their work technique, develop their craftsmanship and benefit from cutting-edge technical training.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	CBL	30
Final evaluation			
- theoretical final exam	-	Test	50
- practical final exam	-	Oral presentation	20
Minimal performance standards: In order to pass the exam practical and theoretical exam grade should be above 5,00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Kovács-Ivácson Andrea-Csinszka	30 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: General radiology
2.2 Course coordinator: Prof dr Buruian Mircea-Marian
2.3 Practical activities coordinator(s):
2.4 Year of study: IV 2.5 Semester: 1 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 4		
- examinations: 4		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Buruian Mircea-Marian	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Forensic medicine			
2.2 Course coordinator: Conf dr Radu Carmen-Corina			
2.3 Practical activities coordinator(s): Asist. univ. drd. Hogeia Timur			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 3		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Anatomy, Physiology, Physiopathology, Clinical Medicine
4.2 competency: not required.

5. Conditions

5.1 for lectures: Access to a videoprojector , laptop
5.2 for practical activities: Access to the practical activities room of The Legal Medicine Institute of Targu Mures, which has the logistical requirements(image recording system in the autopsy room, videoprojector, laptop)

6. Specific competencies acquired

6.1 professional competencies: Knowledge of the legal situations and the requirement proceedings of medico-legal expertise on living persons (traumatology, psychiatry, parentage, etc), and cadavers (necropsy). Correct description and interpretation of violent bodily lesions. Correct completion of the death certificate. Knowledge of the thanatogenesis and the specific lesional aspects of some causes of death
6.2 transversal competencies: Respecting the ethical standards of handling and examination of cadavers.

Integration of knowledge from other disciplines in a medico-legal and legal context

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Obtaining theoretical and practical knowledge in legal medicine specialty, as well as the basic legislative notions used in the current medico-legal practice

7.2 Specific objectives:
 Obtaining knowledge regarding medico-legal expertise on living persons (traumatology, psychiatric, parentage) as well regarding cadavers (necropsy).
 Correct recognition and interpretation of physical signs of violence.
 Correct recognition and interpretation of the criterias of death in clinical practice and in the autopsy room.
 Knowledge of the correct completion of death certificates.
 Obtaining knowledge regarding the thanatogenesis and specific lesions present in different causes of death.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	MEDICO-LEGAL TANATOLOGY Definition and stages of death, medico-legal clasfication of death, The signs of death	lecture	-	agresion/violence	2
2	TRAUMATIC LESIONS (medico-legal causality, primary traumatic lesions). LESIONS BY SHARP OBJECTS.	lecture, TBL session	-	Trauma of the limbs, agresion/violence	2
3	MECHANICAL TRAUMAS AND THEIR EFFECTS ON DIFFERENT TISSUES. FALLING AND PRECIPITATION.LESIONS AND DEATH BY ONE'S OWN MEANS OF ATTACK/DEFENCE	lecture	-	cyanosis,cardiopulmonary arrest,trauma of the limbs, sepsis, shock, coagulation disorders	2
4	MECHANICAL ASPHYXIA.LESIONS AND DEATH BY TRAFFIC ACCIDENTS.LESIONS AND DEATH BY FIREGUNS	lecture	-	cyanosis,cardiopulmonary arrest,trauma of the limbs, sepsis, shock, coagulation disorders	2
5	LESIONS AND DEATH BY PHYSICAL AND CHEMICAL AGENTS	lecture	-	Hypothermia, cerebral palsy, burns, acido-basic inbalance,poisoning	2
6	FORENSIC PSYCHIATRIC EXPERTISE. FORENSIC EXPERTISE IN INPRISONMENT CASES.FORENSIC EXPERTISE IN SEXUAL OFFENCES. PATERNITY.INFANTICIDE	lecture	-	agresion/violence, suicide, self-mutilation	2
7	DNA EXPERTISE IN CIVIL AND CRIMINAL LAW. FORENSIC EXPERTISE IN MEDICAL LIABILITY CASES	lecture	-	Substance abuse, drug reactions	2

Bibliography

C.C. Radu, C. Carasca, T. Hogeia. Medicină legală- suport de specialitate. Editura University Press.2020
 C.C.Radu.Aspecte medico-legale si etice ale traumatismului cranio-facial.Editura Universitatii din Oradea.2016
 C.C.Radu. Notiuni introductive de bioetica in medicina legala. Editura Universitatii din Oradea. 2015
 STEP-UP to USMLE STEP 2 CK, 5th Edition
 Knight's Forensic Pathology - 4th Edition
 V.Belis. Tratat de medicina legala. Vol. 1,2 . Editura medicala Bucuresti.1995

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	MEDICO-LEGAL TANATOLOGY. Definition and stages of death, medico-legal clasification of death. The signs of death	practical activities	-	Agression/violence	2
2	TRAUMATIC LESIONS (medico-legal causality, primary traumatic lesions). LESIONS PRODUCED BY SHARP WEAPONS	practical activities	-	trauma of the limbs, aggression/violence	2
3	MECHANICAL TRAUMAS AND THEIR EFFECTS ON DIFFERENT TISSUES. FALLING AND PRECIPITATION. LESIONS AND DEATH BY ONE'S OWN MEANS OF ATTACK/DEFENSE	practical activities	-	thoracic /abdominal trauma, trauma of the limbs, aggression/violence	2
4	MECHANICAL ASPHYXIA. LESIONS AND DEATH BY TRAFFIC ACCIDENTS. LESIONS AND DEATH BY FIREARMS	practical activities	-	cyanosis, cardiopulmonary arrest, trauma of the limbs, sepsis, shock, coagulation disorders.	2
5	LESIONS AND DEATH BY PHYSICAL AND CHEMICAL AGENTS	practical activities ,CBL	-	Hypothermia, cerebral palsy, burns, acido-basic imbalance, poisoning	2
6	FORENSIC PSYCHIATRIC EXPERTISE. FORENSIC EXPERTISE IN INPRISONMENT CASES. FORENSIC EXPERTISE IN SEXUAL OFFENCES .PATERNITY. INFANTICIDE	practical activities	-	agression/violence. Suicide, self-mutilation	2
7	DNA EXPERTISE IN CIVIL AND CRIMINAL LAW. FORENSIC EXPERTISE IN MEDICAL LIABILITY CASES	practical activities	-	Substance abuse, drug reactions	2

Bibliography

1. C.C. Radu, C. Carasca, T. Hoge. Forensic medicine- specialty support, University press, 2021
2. C.C. Radu. Aspecte medico-legale si etice ale traumatismului cranio-facial. Editura Universitatii din Oradea. 2016
3. C.C. Radu. Notiuni introductive de bioetica in medicina legala. Editura Universitatii din Oradea. 2015
4. STEP-UP to USMLE STEP 2 CK, 5th Edition
5. Simpson s Forensic Medicine, 14th edition
6. V. Belis. Tratat de medicina legala. Vol. 1,2 . Editura medicala Bucuresti. 1995

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Analysing done in the discipline is followed by discussions in order to harmonize with other disciplines. The equivalence between the content and the expectations of the academical community, it's representatives, professional associates and staff is taken into account.

The discipline follows to offer the students optimal premises to get sucessfully hired, imediately after graduation, in residency programmes in Romania and other EU countries.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	1 TBL session, assessment during the lectures	Assessment during the lectures using interactive questions	20
- practical activities	1 CBL session, assessment during the practical activities	Assessment during the lectures using interactive questions	10
Final evaluation			
- theoretical final exam	Sumative assesement	Multiple question test	60
- practical final exam	PA assessment- forensic certificate	Assessment during the recapitulative lecture	10
Minimal performance standards: Minimal passing grade - 5			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Radu Carmen-Corina	Wednesday 11-13

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M3
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatrics			
2.2 Course coordinator: Șef I dr Chinceșan Mihaela-Ioana			
2.3 Practical activities coordinator(s): Șef I dr Chinceșan Mihaela-Ioana			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 4		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: nu este cazul
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: nu este cazul
5.2 for practical activities: nu este cazul

6. Specific competencies acquired

6.1 professional competencies: Recognition of clinical signs specific to the child with the pathology presented in the course curriculum Performing diagnostic and therapeutic maneuvers for the diseases listed in the curriculum Interpretation of appropriate complementary examinations in pediatric pathology Achieving a personalized therapeutic plan for the child Presentation of a clinical case of pediatrics
6.2 transversal competencies: Acquiring oral and written communication skills with both the mother and the pediatric patient Making a project, performing with responsibility tasks specific to a team

Making projects under coordination to solve specific problems in the pediatric field, with the correct assessment of the workload, the available resources, the time needed for completion and the risks, in the conditions of the deontological norms and the professional ethics in the field, as well as the safety and health at work.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The knowledge of basic pediatrics care.

7.2 Specific objectives:

The known of specific pediatric pathology: neonatology, pneumology, gastroenterology, hematology and pediatric oncology.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	CHILD CARE NOTIONS: describing the childhood periods. Growth and development: weight and height growth, perimeters, teething, psychical and motor development, methods for assessing the growth. Assessing the nutritional status - eutrophic, normotrophic, paratrophic, dystrophic child. Primary prophylaxis; Nutrition	Oral presentation + multimedia	nu	normal child development, weight gain, malnutrition, weight gain, infant feeding, immunisation	2
2	THE NEWBORN: neonatal period, evaluation of the gestational age, the newborn's classification, the newborn's assessment at birth. The newborn at term – morphological particularities, the newborn's physiological crises	Oral presentation + multimedia	nu	normal pregnancy and deliver, normal child development, jaundice	2
3	THE PATHOLOGY OF THE RESPIRATORY SYSTEM: Upper airways infections: Acute rhinopharyngitis – definition, etiology, clinical picture, evolution and treatment; Acute pharyngitis- definition, etiology, symptomatology, laboratory, complications, treatment; Low airways infections: Acute laryngitis, Epiglottitis, Acute bronchiolitis, Asthma, Pneumonia- definitions, general symptomatology, treatment	Oral presentation + multimedia	nu	oral disorders (incl. caries), dysphagia respiratory tract infection, breathlessness, Stridor, cyanosis, asthma, acid based disturbance	2
4	DISORDERS OF THE DIGESTIVE TRACT: Acute diarrhea, acute dehydration syndrome, acute gastritis and peptic ulcer in child. INFANT'S DEFICIENCY DISORDERS: RICKETS- classification, etiology, clinical picture, imagistic investigations, diagnosis, treatment, prophylaxis, evolution and prognosis	Oral presentation + multimedia	Theoretical evaluation	abdominal pain; loose stools; vomiting; peptic ulcer; disorders of calcium and vitamin D metabolism	2
5	THE PATHOLOGY OF THE CARDIOVASCULAR SYSTEM – Congenital cardiac malformations: etiology, the anamnesis of the child with congenital cardiac pathology, clinical exam, paraclinical investigations, classification of congenital cardiac malformations. Congestive cardiac failure: definition, etiology, clinical picture, signs and symptoms, treatment; Infectious	Oral presentation + multimedia	nu	cyanosis, breathlessness, oedema; malformations of cardiovascular system; hepatomegaly, endocarditis	2

	endocarditis- definition, prophylaxis, risk groups				
6	HEMATOLOGICAL PATHOLOGY - Anemias- Iron deficiency anemia- definition, etiology, clinical picture, laboratory, prophylactic and curative treatment; Leukemias- definition, etiology, classification, laboratory, treatment, prognosis. Hemorrhagic diatheses- classification of hemorrhagic syndromes, clinical picture; Hemophilia- definition, classification, clinical picture, laboratory, treatment; Platelets disorders: Purpura Schonlein- Henoch purpura, Immune thrombocytopenic purpura- definition, etiology, clinical manifestations, classification, laboratory, treatment, evolution and prognosis.	Oral presentation + multimedia	nu	anemia; lymphadenopathy; splenomegaly; lymphoproliferative disorders; purpura; coagulation disease	2
7	THE PATHOLOGY OF THE RENO-URINARY SYSTEM: urinary tract infections- definition, etiology, pathogeny, symptomatology, laboratory, treatment, evolution, prognosis; Post-streptococcal acute diffuse glomerulonephritis- definition, etiology, physiopathology, clinical picture, laboratory, diagnosis, treatment, prophylaxis; nephrotic syndrome- definition, classification; Idiopathic nephrotic syndrome- definition, etiology, pathogeny, symptomatology, laboratory, complications, diagnosis, treatment. THE PATHOLOGY OF THE CENTRAL NERVOUS SYSTEM: Febrile seizures- definition, etiology, pathophysiology, clinical picture, laboratory, diagnosis, treatment, prophylaxis	Oral presentation + multimedia	nu	dysuria, haematuria; polyuria; frequency of micturition; urinary tract infection; disturbance of consciousness	2

Bibliography

1. Pediatrics-Course notes. Marginean Cristina Oana, Toganel Rodica, Cucerea Manuela, Borka-Balas Reka, Duicu Carmen, Chincesan Mihaela Ioana, Pitea Ana Maria, Editura University Press Targu-Mures, 2013; 268 pag, ISBN: 978-973-169-266-1, cod CNCIS 210
2. Care and nutrition of newborn and toddler. Marginean Cristina Oana, Editura University Press Targu-Mures 2012, 169 pag, ISBN 978-973-169-179-4

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	NOTIUNI DE PUERICULTURA. Examinarea clinica la sugar si copil. Foaia de observatie în pediatrie. Metode de evaluare a cresterii si dezvoltarii la sugar si copil (percentile greutate, talie, perimetru), Dezvoltarea Neuro-psihomeotorie, dentitia de lapte si definitiva.	demonstratii practice, discutii, prezentari de caz	CBL	dezvoltarea normala a copilului; malnutritie; castig ponderal	2
2	NOU NASCUTUL. Bolile carentiale ale sugarului. Nou nascutul la termen, prematur, postmatur, dismatur, Reflexele arhaice. Crizele nou nascutului. Alimentatia exclusiva si preponderenta, diversificare.	demonstratii practice, discutii, prezentari de caz	nu este cazul	sarcina si nasterea normala/dezvoltarea normala a copilului, dezvoltarea normala a copilului, icter, alimentatia sugarului	2
3	PATOLOGIA APARATULUI RESPIRATOR. Infectii de cai respiratorii superioare – recunoastere clinica, examinari de laborator si paraclinice. Infectii de cai respiratorii inferioare – recunoastere clinica, examinari de laborator si paraclinice. Insuficienta	demonstratii practice, discutii, prezentari de caz	nu este cazul	patologii ale cavitatii bucale; disfagie; otita medie; infectie de tract respirator, dispnee; stridor; cianoza; astm; dezechilibru acido-bazic	2

	respiratorie acuta, criterii clinice de recunoastere, oxigenoterapie, indicatii				
4	PATOLOGIA APARATULUI DIGESTIV. Criterii clinice de incadrare a sindromului de deshidratare acuta gradul I,II, III, abordare practica. Descrierea scaunelor normale si patologice la sugar, notarea in FO. BOLILE CARENTIALE ALE SUGARULUI: RAHITISMUL - tablou clinic, examen radiologic, diagnostic, tratament, profilaxia.	demonstratii practice, discutii, prezentari de caz	nu este cazul	durere abdominala; diaree; varsaturi; ulcer peptic, tulburari ale metabolismului calciului si vitaminei D	2
5	PATOLOGIA APARATULUI CARDIOVASCULAR. Anamneza copilului cu cardiopatie congenitala. Examinarea copilului cu MCC. Abordarea practica clinica. Investigatii paraclinice. Recunoasterea clinica a insuficientei cardiace la copil. Endocardita infectioasa – profilaxie.	demonstratii practice, discutii, prezentari de caz	nu este cazul	cianoza; dispnee; edem; malformatii ale sistemului cardiovascular; hepatomegalie; edem; endocardita	2
6	PATOLOGIA HEMATOLOGICA. Anemia feripriva - tablou clinic, laborator, tratament profilactic si curativ; Leucemiile - laborator, tratament. Diatezele hemoragice, hemofilia, sindroame hemoragipare trombocitare: criterii clinice de recunoastere, abordarea practica a hemostazei	demonstratii practice, discutii, prezentari de caz	nu este cazul	anemie; adenopatie; splenomegalie; patologii limfoproliferative, purpura; tulburari de coagulare	2
7	PATOLOGIA APARATULUI RENOURINAR. Infectiile tractului urinar. Examenul de urina. Sindromul nefrotic si Glomerulonefrita- abordare practica clinica, regimul de nefrita, nefroza. PATOLOGIA SISTEMULUI NERVOS CENTRAL : Convulsiile febrile - recunoastere clinica, tratament.	demonstratii practice, discutii, prezentari de caz	nu este cazul	disurie; hematurie; poliurie; diureza/frecventa mictiunilor, infectie de tract urinar; cefalee; presiune intracraniana crescuta	2

Bibliography

1. Pediatrics-Course notes. Marginean Cristina Oana, Toganel Rodica, Cucerea Manuela, Borka-Balas Reka, Duicu Carmen, Chincesan Mihaela Ioana, Pitea Ana Maria, Editura University Press Targu-Mures, 2013; 268 pag, ISBN: 978-973-169-266-1, cod CNCIS 210
 2. Care and nutrition of newborn and toddler. Marginean Cristina Oana, Editura University Press Targu-Mures 2012, 169 pag, ISBN 978-973-169-179-4

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The graduate must know and apply their knowledge in the field their speciality.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	punctaj obtinut	1 Evaluare teoretica pe parcursul semestrului – test grila complement simplu/multiplu	15
- practical activities	acuratetea prezentarii cazului	1 CBL –prezentare de caz	15
Final evaluation			
- theoretical final exam	punctaj obtinut	test grila – complement simplu/multiplu	20
- practical final exam	punctaj obtinut	intrebări tip redactional/test cu caracter practic	50
Minimal performance standards:			
-Prezenta la Evaluarea teoretica pe parcursul semestrului este obligatorie; nu exista posibilitate de repetare a acesteia, dar este permisa participarea la examenul final. In caz de absenta se va nota cu nota 1.			
-Examenul practic este obligatoriu; nota minima de trecere este 5.			

-Se considera promovat examenul de Pediatrie in urmatoarele conditii cumulative:

1. Obținerea unei note de trecere la evaluarea teoretica finala test grila (verificare) mai mare sau egala cu 5.00.
2. Obținerea unei note de trecere la examenul practic final mai mare sau egala cu 5.00.

Toate notele intermediare vor avea doua zecimale si vor intra ca atare in calculul notei finale. Doar nota finala se va rotunji in sus pentru cele care sunt egale sau depasesc 50 de sutimi, si in jos pentru cele care nu indeplinesc acest criteriu.

11. Must seen clinical situation list

1. Nou-nascut; Sugar sanatos – dentitie temporara; Distrofia
2. Bronsiolita acuta; Laringita acuta
3. Malformatii cardiace congenitale; criza hipoxica
4. Endocardita infectioasa
5. Hemofilie; PTI
6. ITU febrile; Glomerulonefrita ac
7. Gastrita acuta
8. Convulsii febrile

12. Clinical / practical abilities

-Examenul cavitatii bucale la sugar/copil sanatos si cu diferite patologii (Pedodontie 1/3,4,5- pag 49; Pedodontie 2/1,2,5,8-pag 68, Patologie orala 1-14, pag 105)
 -Masuri de prim-ajutor in urgentele pediatrice (criza hipoxica, hemoragii, febra, convulsii febrile etc) (Pedodontie 2/7-pag 68)

13. Appointment timetable (for students)

Şef I dr Chinceşan Mihaela-Ioana	30 minute dupa fiecare curs/activitate practica

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Fixed prosthodontics
2.2 Course coordinator: Conf dr Cerghizan Diana
2.3 Practical activities coordinator(s):
2.4 Year of study: IV 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8/12	3.2 lecture: 2	3.3 practical activities: 6/10
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 60		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Cerghizan Diana	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Interdisciplinary confluences in orthodontics			
2.2 Course coordinator: Prof dr Păcurar Mariana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 2		
- other activities: 2		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Complex orthodontic diagnosis and individualized treatment plan
4.2 competency: Basic knowledge of dental morphology, dental occlusion

5. Conditions

5.1 for lectures: Computerized presentation, projector, flipchart
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Elaboration of a complex and individualized treatment plan by clinical examination, complementary examinations (model analysis, radiography examination (OPG and telerradiography), photostatic exam, static and dynamic occlusion examination, anthropometric measurements) Establishing a morphological, etiological, and functional orthodontic complex diagnosis. Establishing therapeutic goals. Preparing the patient for the orthodontic therapy Knowing the stages of ADM growth and development, the importance of space management in mixed and permanent dentition

Knowledge of methods to combat malfunctions and dysfunctions of dento-maxillary apparatus. Selective drilling, stripping, exercises of myogymnastics.

6.2 transversal competencies:

Identifying the objectives to be achieved, the working steps, the implementation deadlines, the available resources, the risks and the conditions for completion a stabile and functional occlusion;

Identifying the role and responsibility of a multidisciplinary team;

Performing orthodontic screenings in different age groups to identify the epidemiological aspects of different types of malocclusion;

Early identification of serious skeletal disorders, of facial harmony and orientation towards specialist surgery.

Effective use of information resources, communication and training resources both in Romanian, Hungarian and in an international language, in order to elaborate and present a specialized paper;

Identifying objectives, work phases, available resources, risk factors in targeted work.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Elaboration of an orthodontic complex diagnosis and identification of the therapeutic objectives.

7.2 Specific objectives:

Acquiring skills for interdisciplinary case analysis

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The reaction of pulpal structures to orthodontic force. The advantages of the pulpotest	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
2	The effects of orthodontic force on periodontal structures	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
3	Methods of preventing gingival recession	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
4	Methods of prevention of root resorption	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
5	Molar uprighting preprosthetic orthodontic therapy	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
6	Surgical methods in diastema prevention.	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
7	White spot lesions	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2

Bibliography

1. Păcurar M, Drașovean A – Anomaliile dento-maxilare – curs, Universitatea de Medicină și Farmacie Tg.Mureș, 2015,194

2. Ecaterina Ionescu - Anomaliile dentare, Editura Cartea Universitară, București, 2005

3. Graber T. Orthodontics: Current Principles and Techniques. Fourth Edition. Mosby Elsevier, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline provides students with an overview of the correlations between Orthodontics and other dental specialties for a holistic approach to the patient.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Mean grade of the 2 TBL modules	20
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Test	Multiple choice test	80
- practical final exam	-	-	0
Minimal performance standards: The final mark for promotion is 5 (five) and is made up of the assessments during the semester (TBL, CBL) respectively the final examinations. The student is required to attend all the evaluations throughout the academic year. If absent from a TBL module, the mark will be 1; there is no possibility of repeating this assessment, but it will still be possible to support the final exam. In the case of absences at TBL sessions for extremely justified reasons, the student has the possibility to draw up a review on the topic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Păcurar Mariana

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Laser in dentistry			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 0		
- examinations: 2		
- other activities: 22		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Multimedia Equipment
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring the knowledge needed to develop a laser based treatment plan. Acquiring theoretical knowledge that implies choosing the type of laser and its parameters according to the future intervention.
Ability to gain knowledge about choice of ideal candidate for laser treatments.
6.2 transversal competencies:
Cognitive skills:
Concepts of laser therapies

Concepts of paraclinical investigations useful in formulating effective diagnoses and treatment plans.

Affective-value competencies:
Communication with the patient.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge of laser therapies, indications, contraindications, laser therapy variants

7.2 Specific objectives:

Understanding the methods of examining patients.

Understanding the importance of the oral rehabilitation concept supported by laser therapies. Acquiring the knowledge needed to develop an individualized treatment plan supported by laser therapies.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Laser Basics	Multimedia presentation	-	-	1
2	Laser physics	Multimedia presentation	-	-	1
3	Laser Safety	Multimedia presentation	-	-	1
4	Types of lasers	Multimedia presentation	-	-	1
5	Diode lasers	Multimedia presentation	-	-	1
6	Diode laser applications	Multimedia presentation	-	-	1
7	Diode lasers and diode laser clinical applications	Multimedia presentation	TBL	-	1
8	Nd:YAG lasers	Multimedia presentation	-	-	1
9	Nd:YAG laser applications	Multimedia presentation	-	-	1
10	Er:YAG lasers	Multimedia presentation	-	-	1
11	Er:YAG laser applications	Multimedia presentation	-	-	1
12	CO2 lasers	Multimedia presentation	-	-	1
13	CO2 laser applications	Multimedia presentation	-	-	1
14	Clinical situations for different types of lasers and their effects on tissues - soft tissues, hard tissues, implants	Multimedia presentation	TBL	-	1

Bibliography

Bibliography

1. Aldo Brugnara Jr., Samir Namour. Laser Dentistry: Current Clinical Applications, World Federation for Laser Dentistry Universal Publishers, 2018.

2. Donald J. Coluzzi, Robert A. Convissar. Atlas Of Laser Applications In Dentistry, Quintessence Pub Co, 1st edition, 2007.

3. Patricia M. Freitas, Alyne Simões. Lasers in Dentistry: Guide for Clinical Practice, Wiley-Blackwell, 1st edition, 2015.
4. Olivi Giovanni, De Moor Roeland, DiVito Enrico. Lasers In Endodontics, Springer International Publishing, 2016.
5. Course notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and updated to the requirements of the correct application of the notions of laser therapies in oral rehabilitation, periodontology, implantology, and of general pathology, pharmacology, physiopathology and psychology.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course.	3 TBL sessions	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course.	Multiple choice examination	70
- practical final exam	-	-	0
Minimal performance standards: Minimal performance standards: Obtain the minimum score of 5 (five) for each evaluation component: course: - to know the basic notions regarding laser therapy, - to participate in the TBL debates in the above-mentioned themes			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	Miercuri 11-12

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Digital orthodontics			
2.2 Course coordinator: Conf dr Pop Silvia-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 16		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 0		
- examinations: 4		
- other activities: 2		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: projector
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Computer aid complex ethiologic, morphological and functional complex orthodontic diagnosis
6.2 transversal competencies: Identification of serious skeletal anomalies, affecting facial harmony and guidance to specialized services (orthodontics, OMF surgery) Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Elaboration of an orthodontic complex diagnosis by modern techniques

7.2 Specific objectives:

Acquiring the computational analysis features of lateral cephalometry

- Knowing the optimal moment to establish an orthodontic treatment based on the assessment of skeletal age using the CVM method

- Designing a complex orthodontic treatment plan based on child's age, general health status, with emphasis on the nature of the anomaly (functional, anatomical)

- The role of CBCT in the diagnosis of anomalies (retained canine).

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Orthodontic programming and storage software. Finite element method FEM, method of evaluation of dental movements in orthodontic biomechanics	Power Point Presentation	-	-	2
2	Growth assessment on profile telerradiography, VTO method in orthodontic diagnosis. Use of Dolphin software in measurements on profile cephalogram	Power Point Presentation	-	-	2
3	Diagnostic set-up, advantages and limitations of the Invisalign technique	Power Point Presentation	-	-	2
4	My dent digital application, possibilities for online communication with patients	TBL	-	-	2
5	Scanning and storing models on computer. The advantages of the digital method. Digital photography. Means of assessing facial asymmetries	Power Point Presentation	-	-	2
6	The advantages of Easy Dent radiological software in detecting root resorption following orthodontic therapy. Total space analysis. Cephalometric correction after growth prediction	Power Point Presentation	-	-	2
7	CVM method of bone age analysis compared to dental and chronological age. Transversal expansion assessment. (Pennsylvania CBCT Analysis) 3D facial recognition software. Evaluation of craniofacial parameters in digital orthodontics	Power Point Presentation	-	-	2

Bibliography

1. Mártha Krisztina, Cristina Bică: OrthoAtlas, Ed. University Press Tg. Mureș, 2015, ISBN: 978-973-169-329-3
2. Cristina Bică, Ligia Brezeanu: Deplasarea dentară ortodontică. Modele, simulări și aplicații. Ed. University Press Tirgu Mures, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Assessing the optimal time to start an orthodontic treatment, assessing facial growth patterns with computerized radiographic techniques

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	information acquired	30

- practical activities	-	-	0
Final evaluation			
- theoretical final exam	final exam	multiplechoice test	70
- practical final exam	-	-	0
Minimal performance standards: Minimum 5			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Pop Silvia-Izabella	vineri 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontal regeneration and surgical techniques			
2.2 Course coordinator: Șef I dr Benedek Csilla			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 8		
- supplemental documentation at the library, from specialized information portals and in the field: 8		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 4		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Şef I dr Benedek Csilla	

Head of department

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Minimally invasive techniques in prosthetic dentistry			
2.2 Course coordinator: Conf dr Cerghizan Diana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 3		
- examinations: 5		
- other activities: 1		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Conf dr Cerghizan Diana	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetic hereditary factors in determining the scope of orofacial disorders			
2.2 Course coordinator: Prof dr Bănescu Claudia-Violeta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 18		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
minim 10 persoane
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Formularea de ipoteze si interpretarea corectă a semnelor, simptomelor clinice, a modificărilor paraclinice.
Acordarea sfatului genetic, calcularea riscului de recurenta a bolilor genetice.
Evaluarea corectă a riscului de îmbolnăvire, respectiv alegerea si aplicarea măsurilor adecvate de profilaxie în familie si în populatie în caz de boală genetică.
Implementarea unor abordări noi privind procesul de stabilire a diagnosticului si managementului bolilor genetice în relatie cu
progresul cunoasterii si cel tehnic din domeniul biologiei moleculare

Initierea si derularea unei activități de cercetare stiintifică în domeniul geneticii

6.2 transversal competencies:

Constientizarea nevoii de formare continuă în domeniul geneticii si biologiei moleculare în era de genetizare a medicinei: utilizarea eficientă a resurselor si tehnicilor de învățare pentru dezvoltarea personală si profesională, a surselor informationale si a resurselor de comunicare, a literaturii de specialitate la zi, a bazelor de date genetice si softuri de asistare a stabilirii diagnosticului în bolile genetice cu implicare in sfera oro-maxilo-faciala.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Înșușirea noțiunilor de genetică medicală cu aplicații în medicina dentara.

7.2 Specific objectives:

Cunoașterea rolului factorilor genetici în realizarea trăsăturilor fiziologice și a bolilor genetice cu implicare in sfera oro-maxilofaciala.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Approaching of the patient with congenital malformations. Syndromes associated with filtrum abnormalities	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Syndromes associated with lip abnormalities (full lips). Syndromes associated with lip abnormalities (cleft lip)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	Syndromes associated with tongue abnormalities (macroglossia, microglossia). Syndromes associated with tongue abnormalities (multiple frenulum, bifid tongue)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
4	Syndromes associated with teeth abnormalities (anodontia, hypodontia). Syndromes associated with teeth abnormalities (abnormalities of eruption, neonatal teeth)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Syndromes associated with abnormality of the maxilla	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
6	Chromosomal abnormalities associated with oro-facial syndromes	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
7	Congenital anomalies induced by teratogens. Genetic counseling in syndromes affecting Craniofacial and Dental Structures	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases.	2

Bibliography

Bibliografie obligatorie:

1. Lyons Jones K., Crandall Jones M., Del Campo M. Smith's recognizable patterns of human malformation, 7th edition, Ed. Elsevier, 2013

Bibliografie suport:

2. Agnes Bloch-Zupan, Heddie Sedano, Crispian Scully. Dento/Oro/Craniofacial Anomalies and Genetics. Ed Elsevier, 2012.

3. Raoul Hennekam, Judith Allanson, and Ian Krantz. Gorlin's Syndromes of the Head and Neck, Editura: Oxford University Press. 2010

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Recunoașterea și abordarea factorului genetic în determinarea tulburărilor din sfera oro-maxilofacială

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the specifics of the domain	test, proiecte in echipa- discutii.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	According to the specifics of the domain	written exam	70
- practical final exam	-	-	0
Minimal performance standards: Basic knowledge of medical genetics, The minimum grade to pass the exam is 5 (this will result from the grades received for activities during the semester and at the final exam). The theoretical exam consists of a test with simple and multiple choices, according to the regulation.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bănescu Claudia-Violeta	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occupational diseases and work-related diseases in dentistry			
2.2 Course coordinator: Conf dr Moldovan Horațiu-Remus			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 14		
- other activities: 4		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Cunoștințe generale de anatomie, fiziologie și fiziopatologie
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: Sala de curs, suport IT, platformă digitală pentru predare on/line, în funcție de evoluția epidemiologică
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Cunoașterea noxelor profesionale fizice, chimice și biologice, precum și a suprasolicitarilor anumitor organe și/sau sisteme ale organismului în procesele de muncă în domeniul stomatologiei. Cunoașterea unor efecte ale acestor noxe asupra organismului.
6.2 transversal competencies: Aplicare de măsuri de prevenire eficiente pentru prevenirea îmbolnăvirilor profesionale sau a îmbolnăvirilor cu factori profesionali contributivi în domeniul stomatologiei.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Constientizarea, recunoasterea factorilor de risc profesionali la personalul din domeniul stomatologiei si a tehnicii dentare. Elaborarea unor planuri de prevenire.

7.2 Specific objectives:

Recunoasterea semnelor, simptomelor unei eventuale imbolnaviri profesionale.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Occupational risks and risks related to occupation in dentists, classification. Physical injury factors in dentistry: basic ergonomics concepts; occupational injuries caused by vibration and noise.	Oral/multimedia	-	osteomuscular pain, dizziness, hearing loss, pain	2
2	Occupational physical risks in dentistry: different types of electromagnetic radiation (laser, UV, visible light) -, ionizing radiation (Rx) -, occupational injuries caused by electricity, accidents.	Oral/multimedia	-	asthma, dyspnea, burns, cardiorespiratory arrest, pruritus	2
3	Occupational physical hazards: microclimate and occupational diseases caused by various dust. Classification of elementary dust particles: metals, other types of dust (organic substances, inorganic substances, composites). Lung self-cleaning process, prevention techniques.	Oral/multimedia	-	asthma, acne, carcinoma, gastric ulcer, intoxication	2
4	Occupational diseases caused by inorganic particles in dentistry: pneumoconiosis, interstitial pneumonia. Harmful chemical factors in dentistry: diseases caused by irritating gases, vapors, organic solvents.	Oral/multimedia	-	immunodeficiency, candidosis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2
5	Latex allergy. Contact dermatitis caused by acrylates and metals. Occupational asthma: epidemiology, diagnosis, evolution.	Oral/multimedia	-	dermatitis, intoxication	2
6	Occupational diseases caused by metal oxides (Ni, Cr, Co, Hg) in dentistry. Diseases caused by biological factors in dentistry (epidemiology, prevention procedures - vaccination programs recommended by the WHO): HIV, hepatitis B, C, TB, other common bacterial, fungal and viral infectious diseases.	Oral/multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, neurological diseases	2
7	TBL	Oral/multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, sleep disorders, immunodeficiency, candidiasis, osteomyelitis, otitis media,	2

tuberculosis, endocarditis, sepsis, skin infections, respiratory infections

Bibliography

1. Encyclopaedia of Occupational Health and Safety, 2012, online <http://www.iloencyclopaedia.org>
2. H.G. 355/2007
3. H.G. 1169/201
4. A. Cocarla, Medicina ocupationala, vol I, II, 2009 Editura Medicala Universitara Iuliu-Hatieganu, Cluj Napoca
5. L. Szasz, Vandemecum de medicina muncii, Editura Universitas, Targu Mures, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

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10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	during the lectures	participation in debates during classes	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-final exam	-verification	90
- practical final exam	-	-	0
Minimal performance standards:			
- minimum presence for internship - 75%			
- patient examination and anamnesis - 25%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Moldovan Horațiu-Remus

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Epidemiology and preventive medicine
2.2 Course coordinator: Șef I dr Golea Cristina
2.3 Practical activities coordinator(s):
2.4 Year of study: IV 2.5 Semester: 2 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 2		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Golea Cristina	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dento-alveolar surgery			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Șef. Lucr. dr Cosarca Adina Simona, Șef. Lucr. dr Petrovan Cecilia, Șef. Lucr. dr Iacob Alina, Asist Univ. Dr. Bereczki Temistocle Despina			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 21		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 7		
- examinations: 7		
- other activities: 3		
3.8 Total hours of individual study: 70		
3.9 Total hours: 154		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Description of the concepts, theories and fundamental notions regarding the appearance of dental pathology, signs and symptoms characteristic of each disease, useful for guiding clinical diagnosis. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms to develop the diagnosis. Use of therapeutic resources to formulate the treatment plan as well as correct interpretation of clinical and paraclinical data. Application of acquired clinical techniques and knowledge to be integrated with paraclinic data. Developing and applying a treatment plan in accordance with the stage of the disease and its individualized adaptation to the patient's particularities.

Correct examination of the patient, establishing the indications for tooth extraction and carrying them out. Prevention of accidents and post-extractive complications, respectively their treatment, if they have occurred. Appropriate establishment of indications of surgery to aid endodontic treatment; indications of preprosthetic surgical treatment.

6.2 transversal competencies:

Identification of objectives to be achieved, available resources, conditions for their completion, working stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying techniques of relationship and effective work within the team and in relation to the patient. Efficient use of communication resources and assisted training. Compliance with the rules of asepsis and antisepsis, occupational and medical protection. Effective teamwork.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquisition of extraction techniques in different dental groups.

7.2 Specific objectives:

Familiarize students with the extraction tool. Acquisition of extraction techniques at different dental groups, accidents and complications of tooth extraction and their treatment. Acquiring theoretical knowledge from surgery dental-alveolar (endodontic and proprosthetic surgery).

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Examination of the patient in OMF surgery. Clinical examination. Paraclinical examinations	oral presentation + multimedia, discussions	-	-	2
2	Tooth extraction. Indications, contraindications of extraction of temporary and permanent teeth	oral presentation + multimedia, discussions	-	-	2
3	Tooth extraction. Tooth extraction technique with extraction forceps	oral presentation + multimedia, discussions	-	-	2
4	Tooth extraction with forceps, by groups of teeth	oral presentation + multimedia, discussions	-	-	2
5	Extraction of roots with forceps; elevators; by separating the roots	oral presentation + multimedia, discussions	-	-	2
6	Tooth extraction by alveolotomy	oral presentation + multimedia, discussions	-	-	2
7	Post-extractional healing	oral presentation + multimedia, discussions	-	-	2
8	Local accidents of dental extraction	oral presentation + multimedia, discussions	-	-	2
9	Local complications of tooth extraction	oral presentation + multimedia, discussions	-	-	2
10	Endodontic surgery. Transmaxillary drainage	oral presentation + multimedia, discussions	-	-	2
11	Endodontic surgery. Apical resection. Radicular amputation	oral presentation + multimedia, discussions	-	-	2
12	Dental replanting. Dental transplanting	oral presentation + multimedia, discussions	-	-	2
13	Proprosthetic surgery. Restoration of the deficiencies of the soft parts of the prosthetic field	oral presentation + multimedia, discussions	-	-	2
14	Proprosthetic surgery. Restoration of bone deficiencies of the prosthetic field	oral presentation + multimedia, discussions	-	-	2
Bibliography					
Oral and maxillo facial surgery, Sumit Sanghai, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD					
Oral surgery, Fragiskos D, 2007					

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Revision of the dento-maxillary anatomy and a local and loco-regional anesthesia techniques necessary to perform dental extractions	Multimedia presentation, teaching materials, discussions	-	-	4
2	Examination of the patient, indications and contraindications of dental extraction. Familiarity with the extraction tool	Multimedia presentation, teaching materials, discussions	-	-	4
3	Preparation of the patient, doctor and a instruments for performing tooth extraction. Extractions by groups of teeth	Multimedia presentation, teaching materials, discussions	-	-	4
4	Accidents and complications of tooth extraction and their treatment	Multimedia presentation, teaching materials, discussions	-	-	4
5	Performing practical extractions (in patients)	CBL	CBL1	-	4
6	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
7	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
8	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
9	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
10	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
11	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
12	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
13	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
14	Performing practical extractions (in patients)	CBL	CBL2	-	4
Bibliography Oral Surgery Fragiskos 2007					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

At the end of the fourth year, students should be able to diagnose dental-alveolar conditions that indicate tooth extraction or conservative surgical treatment, perform uncomplicated dental extractions, prevent, recognize and treat accidents and complications that occurred during extractions; redirect patients to the chiryr. If the extraction could not be completed, there have been accidents and complications that it cannot treat. SA recommend surgical methods to help with prosthetic therapy if this is necessary. Diagnose clinical situations that indicate and allow replanting, dental transplants.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	according to the specific objectives of the disciplines	-	0
- practical activities	according to the specific objectives of the disciplines	CBL	15
Final evaluation			
- theoretical final exam	according to the specific objectives of the disciplines	written exam multiple choice	50
- practical final exam	according to the specific objectives of the disciplines	written examination	20

Minimal performance standards:

Conducting anamnesis, complete and correct clinical examination and basic diagnostic procedures, requesting appropriate complementary examinations, formulating a correct diagnosis.

Developing an individualized therapeutic plan and performing basic therapeutic procedures, including those aimed at qualified first aid.

Be able to perform uncomplicated dental extractions, prevent, recognize and treat accidents and complications that occur when performing dental extractions.

Practical activity note (dental extractions) – minimum 5; note < 5 = failed examination;

0 extractions – failed examination

1 extraction – note 5

2 extracts – note 6

3 extracts – note 7

4 extracts – note 8

5 extracts – note 9

6 extracts – note 10

Final theoretical exam note – minimum 5; note < 5 = failed exam;

Practical final exam note – minimum 5; note < 5 = failed exam;

Final note – minimum 5; note < 5 = failed exam.

Mandatory attendance at LP; 20% unmotivated absences are allowed (8 hours lp = 2 LPs); >20% unmotivated absences or unrecovered absences = failed exam. Absences to LP can only be recovered during the school year or summer practice, depending on the schedule of the LP's tutor.

11. Must seen clinical situation list

aaaaaaaaaaaaa

12. Clinical / practical abilities

Tooth extractions

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Infectious diseases			
2.2 Course coordinator: Șef I dr Sincu-Bodnar Nina-Ioana			
2.3 Practical activities coordinator(s): Șef lucrari dr Bodnar Nina-Ioana			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: None required
4.2 competency: None required

5. Conditions

5.1 for lectures: on site
5.2 for practical activities: on site

6. Specific competencies acquired

6.1 professional competencies: The course is addressed to students in the 4th year of Dental Medicine. At the end of the course, the students will acquire general knowledge about infectious diseases, will know principles of diagnosis and treatment in parenteral, nosocomial infections, infections in the oro-cervical region, systemic infections, infectious diseases with cardinal symptoms in the oral cavity, as well as peculiar features of infections in immunocompromised hosts.
6.2 transversal competencies: Integration of assimilated knowledge with the purpose of recognition and diagnosis of an infectious disease, curative and prophylactic treatment measures in emerging and reemerging infectious diseases with an impact on population health.

Students should be able to manage the patients with infectious nosocomial pathology, those suffering from infectious diseases manifested in the oral cavity and with systemic repercussions or patients with transmissible infectious diseases posing epidemiologic risk.

Acquiring proper communication skills towards patients with infectious diseases, and integration into multidisciplinary teams.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge regarding communicable and non-communicable infectious diseases; identification, diagnosis, treatment and preventive measures in infectious diseases.

7.2 Specific objectives:

Identifying the nosocomial character of an infection, the application and the explanation of the preventive measures in nosocomial infections. Knowing how the hepatitis viruses A, B, C, D, E, as well as HIV, are transmitted. Prescribing and interpreting virological examinations in infections with these viruses. Knowing the principles of prophylaxis and treatment. Information and counseling on the prevention and parenteral transmission of HIV. Knowledge about detecting an HIV infection in the dentist's office: specific manifestations in the oral cavity. Knowledge of the terms: systemic inflammatory response syndrome, bacteraemia, sepsis, septic shock. Emergency identification and management planning of sepsis. The role of dental focal infections in generating systemic cardiovascular and CNS manifestations and their management. Principles of etiological treatment in infectious diseases; the main classes of antimicrobial agents.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Infectious process. Classification of infectious diseases. Emerging and re-emerging infections. Particularities of prophylaxis and etiological therapy in odontogenic infections.	oral + multimedia presentation	None	PUO-pyrexia of unknown origin. Immunisation	2
2	Oro-cervical bacterial infections	oral + multimedia presentation	None	Oral disorders. Dysphagia	2
3	Oro-cervical viral and fungal infections	oral + multimedia presentation	None	Infectious diseases of childhood. Candidiasis	2
4	Systemic bacterial infections with oro-pharyngeal entry gate.	oral + multimedia presentation. MCQ assessing the knowledge acquired from the previous lectures	None	Septicaemia	2
5	HIV/AIDS infection. Oropharyngeal and facial manifestation of HIV infection.	oral + multimedia presentation	None	HIV	2
6	Acute viral hepatitis with parenteral and enteral transmission.	oral + multimedia presentation	None	Acute liver disease. Hepatomegaly. Jaundice.	2
7	Intracranial hypertension syndrome of infectious origin. Acute meningitis. Acute encephalitis.	oral + multimedia presentation	None	Meningitis. Headache. Raised intracranial pressure.	2

Bibliography

1. Georgescu AM, Tilea B, Chiriac C (sub red): Infectious diseases. University Press Tirgu Mures publishing house, 2014, 258 pg, ISBN 978-973-169-318-7

2. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020

3. Course notes

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Streptococcal infections – clinical manifestations.	case report, images from our clinical practice	None	Infectious diseases of childhood. Oral disorders. Dysphagia	1
2	Herpes-virus infections.	case report, images from our clinical practice	None	Bullous/vesicular skin eruption	1
3	Mumps - clinical manifestations and differential diagnosis challenges	case report, images from our clinical practice	None	Parotid swelling	1
4	Respiratory viral infections. Influenza. SARS-CoV-2 infection.	case report, images from our clinical practice	None	Respiratory tract infection	1
5	Diagnosis of acute pharyngitis.	case report, images from our clinical practice	None	Oral disorders	2
6	Acute viral hepatitis.	case report, images from our clinical practice	None	Acute liver disease. Hepatomegaly. Jaundice.	2
7	HIV/AIDS infection. Clinical aspects of oral cavity diseases in HIV/AIDS infections.	CBL	None	HIV	2
8	Antibiotic therapy in dental practice.	case report, images from our clinical practice	None	Drug reactions	1
9	Post-exposure prophylaxis	case report, images from our clinical practice	None	Immunisation	1
10	Nosocomial infections.	case report, images from our clinical practice	None	Acute renal disease	1
11	Infections with digestive entry gate.	case report, images from our clinical practice	None	Loose stools	1

Bibliography

1. Georgescu AM, Tilea B, Chiriac C (sub red): Infectious diseases. University Press Tirgu Mures publishing house, 2014, 258 pg, ISBN 978-973-169-318-7
2. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
3. Course notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- demographic and climatic changes help maintain infectious diseases up-to-date
- the appearance of emerging and reemergent diseases with particular epidemiological impact
- alarming increase in microbial resistance to antibiotics
- particularities of infectious diseases in immunocompromised hosts.
- the impact of decisions upon infectious pathology on the general well-being of the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge assessment (information acquired from lectures and individual study)	MCQ (multiple question test)	20
- practical activities	The ability to correctly manage a clinical case from the curriculum	CBL	10
Final evaluation			
- theoretical final exam	Acquiring theoretical knowledge regarding clinical findings, positive and differential diagnosis, therapeutic, curative and prophylactic measures regarding infectious diseases.	MCQ test – multiple choice questions	60

- practical final exam	The ability to identify the main signs and symptoms of the studied pathologies, in order to establish the investigation and treatment plan.	MCQ test – multiple choice questions	10
Minimal performance standards: Minimum Performance Standard: - recognizing infectious diseases - managing an infectious disease in the dental practice CLINICAL ABILITIES - to perform the medical history of the patient - to perform the physical examination - hierarchical representation of differential diagnosis lists - enumerating and supporting the elements of positive diagnosis for the clinical conditions included in curriculum TECHNICAL ABILITIES: - collecting pharyngeal swab PARACLINICAL ABILITIES: - CBC results: interpretation - coagulation test results: interpretation - peripheral blood smear: interpretation - urinalysis: interpretation - plasma biochemistry: interpretation - biochemical results from CSF: interpretation - acid base balance: interpretation - interpretation of different cultures and antibiotic sensitivity tests (blood culture, CSF, other bodily fluids) - interpretation of serological tests - parasite detection tests - result interpretation THERAPEUTIC RECOMMENDATIONS - identification of therapeutical objectives and priorities in a particular case - to perform a correct therapeutical prescription for patients from different categories (suffering from infectious disease pathology in the oro-cervical region) - selecting the right route of administration and optimal therapeutic form of medication in a specific case PROPHYLAXIS - Educating/counseling the patient for behavioral risk factors and promoting a healthy lifestyle - Primary, secondary and tertiary prevention plan in a particular situation COMMUNICATION - To complete the medical history, physical examination, and medical documents of a patient - Explaining the diagnostic and therapeutic procedures and obtaining the patient's consent - To note the patient's daily evolution - formulating the recommendations at discharge in verbal and written form - oral case presentation of an infectious disease pathology in the oro-cervical region MUST SEEN CLINICAL SITUATION LIST: 1. Oropharyngeal streptococcal infections 2. Oropharyngeal viral infections 3. Mumps 4. Influenza 5. Acute viral hepatitis 6. Oral manifestations in HIV infection 7. Acute meningitis 8. Encephalitis 9. Sepsis with oropharyngeal portal of entry			

11. Must seen clinical situation list

1. Oropharyngeal streptococcal infections
2. Oropharyngeal viral infections
3. Mumps
4. Influenza
5. Acute viral hepatitis
6. Oral manifestations in HIV infection
7. Acute meningitis
8. Encephalitis
9. Sepsis with oropharyngeal portal of entry

12. Clinical / practical abilities

CLINICAL ABILITIES

- to take the patient's medical history 2.1
- to perform the physical examination 2.2
- hierarchical representation of differential diagnosis lists 2.10
- enumerating and supporting the elements of positive diagnosis included in the curriculum 2.11

TECHNICAL ABILITIES:

- collecting pharyngeal swab 3.8

PARACLINICAL ABILITIES:

- CBC - written results: interpretation 4.3
- coagulation test - written results: interpretation 4.4
- peripheral blood smear - written results: interpretation 4.6
- urinalysis – written results: interpretation 4.8
- plasma biochemistry – written results: interpretation 4.10
- biochemical tests from CSF – written results: interpretation 4.11
- acid base balance – written results: interpretation 4.12
- various cultures and antibiotic sensitivity tests (blood culture, CSF, other bodily fluids) – written results: interpretation 4.15
- serological tests – written results: interpretation 4.19
- parasite detection tests - written results: interpretation 4.21

THERAPEUTIC RECOMMENDATIONS

- identification of therapeutical objectives and priorities in a particular clinical case 6.1
- to perform a correct therapeutical prescription for various categories of patients (with infectious disease pathology in the oro-cervical region) 6.2
- selecting the right route of administering the treatment and the optimal therapeutic form of the medication in a particular clinical case 6.5

PROPHYLAXIS

- to educate / counsel the patient regarding behavior/lifestyle risk factors and how to alter these and promote a healthy lifestyle 7.1- 0
- primary, secondary and tertiary prevention plan in a particular clinical situation 7.6- 1

COMMUNICATION

- To complete the medical history and physical examination in the patient's medical documents 8.1- 1
- to explain the diagnostic and therapeutic procedures and to obtain the patient's informed consent 8.2- 1
- To note the patient's daily evolution 8.3- 3
- to formulate the recommendations at discharge in verbal and written form 8.9- 1
- oral case presentation of a case of infectious disease pathology in the oro-cervical region 8.13- 1

13. Appointment timetable (for students)

Şef I dr Sincu-Bodnar Nina-Ioana	Luni 14:00-16:00

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ophthalmology			
2.2 Course coordinator: Șef I dr Vultur Florina			
2.3 Practical activities coordinator(s): Șef I dr Vultur Florina			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 2		
- examinations: 2		
- other activities: 2		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: x
4.2 competency: x

5. Conditions

5.1 for lectures: x
5.2 for practical activities: x

6. Specific competencies acquired

6.1 professional competencies: - C1 Identification of eye diseases, establishing a presumptive diagnosis, recognition of ophthalmic emergencies - C2 Knowing the therapeutic plan of diseases with positive diagnosis - C3 Prophylaxis measures for avoiding the illness of congener eye or of the community to which it belongs the patient - C4 Guidance of patients at risk to specialized ophthalmologic screening units - C5 The ability to participate to team research of ophthalmologic issues
6.2 transversal competencies: Multidisciplinary team work, understanding the objective of the activity, the assignment of specific duties to each

specialty, the sequencing of work, verbal-written communication skills, linguistic skills to develop and present projects and to communicate with the patient as well as with team members.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquisition of basic knowledge of general ophthalmology

7.2 Specific objectives:

1. Identify ophthalmic emergencies, drawing up an investigational plan for establishing finally the diagnostic of certainty by the eye specialist physician.
2. Positive diagnosis of uncomplicated eyelid or conjunctival diseases, development of a therapeutic drug plan, proper monitoring of the disease, recognition of unfavorable evolution and referring the patient to the ophthalmologist.
3. Appropriate monitoring of the therapeutic plan initiated by ophthalmologist.
4. Initiating preventive measures within a community when a contagious eye disease occurs.
5. Prophylaxis measures for avoiding the illness of the congener eye.
6. Referral to specialized screening of patients at risk for eye disease.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Orbital and lachrymal sistem pathology	Oral presentation and PowerPoint	x	oedema, orbital swelling, brain tumor, red eye, visual impairment, trauma to head, thyroid disorders, inflammatory arthritis,	2
2	Eyelids diseases	Oral presentation and PowerPoint	x	oedema, allergic disorders, lymphoproliferative disorders, cranial nerve disorders, skin cancer, skin infections, skin ulcerations	2
3	Pathology of the conjunctiva	Oral presentation and PowerPoint	x	oedema, allergic disorders, inflammatory arthritis, lymphoproliferative disorders, red eye	2
4	Pathology of the cornea	Oral presentation and PowerPoint	x	brain tumor, red eye, visual impairment, visual loss, cranial nerve disorders	2
5	Lens disorders	Oral presentation and PowerPoint	TBL	agression/violence, visual impairment, visual loss, diabetes mellitus, trauma to head	2
6	Glaucoma	Oral presentation and PowerPoint	x	headache, red eye, visual impairment, visual loss, diabetes mellitus, glaucoma	2
7	Red eye, ophthalmological emergencies	Oral presentation and PowerPoint	x	agression/violence, falls, oedema, allergic disorders, cerebrovascular disease, red eye, visual impairment, visual loss, glaucoma, hypertension, poisoning, septicaemia	2

Bibliography

Mandatory bibliography:

Kanski's Clinical Ophthalmology, 9th Edition., author John F. Salmon, publisher Elsevier, 2019, ISBN 9780702077111

Karin Horvath, Florina Vultur, Gh. Muhlfay: Ophthalmology-Lecture notes, Editura University Press, UMF TgMures, 2014

Support bibliography:

Jack J. Kanski, Clinical Ophthalmology: A Systematic Approach, 7th Edition, 2011

American Academy of Ophthalmology, Basic and Clinical Science Course, 2010-2011

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Presenting ophthalmological office, equipment and medicinal substances used in ophthalmology. Case presentation from orbital pathology	Practical demonstrations, case presentation	x	oedema, orbital swelling, brain tumor, inflammatory arthritis, red eye, visual impairment, thyroid disorders, trauma to head	2
2	Examination of the eyelids, demonstrations, case presentation	Practical demonstrations, case presentation	x	oedema, allergic disorders, lymphoproliferative disorders, cranial nerve disorders, skin cancer, skin infections, skin ulcerations	2
3	Examination of the conjunctiva, learning examination maneuvers, therapeutic maneuvers (subconjunctival injection etc), case presentation	Practical demonstrations, case presentation	x	oedema, allergic disorders, inflammatory arthritis, lymphoproliferative disorders, red eye	2
4	Slit lamp examination of the cornea, case presentations, practical demonstrations (corneal foreign body removal, etc.)	Practical demonstrations, case presentation	x	brain tumor, red eye, visual impairment, visual loss, cranial nerve disorders	2
5	Cataract (examination, diagnosis, surgery)	Practical demonstrations, case presentation	CBL	agression/violence, visual impairment, visual loss, diabetes mellitus, trauma to head	2
6	Ocular tension, tonometry, computed perimetry, examination of glaucomatous patient	Practical demonstrations, case presentation	x	headache, red eye, visual impairment, visual loss, diabetes mellitus, glaucoma	2
7	Examination of the patient with ocular trauma, interdisciplinary investigations, tests, laboratory analysis, preparation for surgery	Practical demonstrations, case presentation	x	agression/violence, falls, headache, oedema, squint, visual impairment, visual loss, trauma to head	2

Bibliography

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Support bibliography:

Jack J. Kanski, Clinical Ophthalmology: A Systematic Approach, 7th Edition, 2011

American Academy of Ophthalmology, Basic and Clinical Science Course, 2010-2011

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Acquired ophthalmologic knowledges will serve to adequate recognition of ophthalmic emergencies, the presumptive diagnosis and proper guidance of the patient to appropriate specialist.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Written evaluation	10
- practical activities	CBL	Oral evaluation	20
Final evaluation			
- theoretical final exam	Knowledge of the material from theoretical lectures and practical activities	Written evaluation	70
- practical final exam	x	x	0
Minimal performance standards: Knowing of minimum 50% from the presented subjects.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Vultur Florina	Vineri 13-14

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Otorhinolaryngology
2.2 Course coordinator: Conf dr Neagoș Adriana
2.3 Practical activities coordinator(s):
2.4 Year of study: IV 2.5 Semester: 2 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 3		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 3		
- examinations: 3		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

- MUST SEEN CLINICAL SITUATIONS LIST
- a. Ear wax – Ear cleaning
- b. Acute Tonsillitis Diagnosis
- c. Dental Sinusitis Diagnosis
- d. How to care the patient with nasal bleeding

12. Clinical / practical abilities

- For the final pass it is mandatory to accomplish the following conditions:
- a. 100% practical exam Pass
- b. For the theoretical exam 55% from answers have to be correct

13. Appointment timetable (for students)

Conf dr Neagoș Adriana	

Head of department

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M3
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Neurology
2.2 Course coordinator: Conf dr Bajko Zoltan
2.3 Practical activities coordinator(s):
2.4 Year of study: IV 2.5 Semester: 2 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 5		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bajko Zoltan	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Psychiatry			
2.2 Course coordinator: Conf dr Mihai Adriana			
2.3 Practical activities coordinator(s): Conf.dr.Mihai Adriana			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 4		
- other activities: 2		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: cunoștiințe minime de psiho-farmacologie
4.2 competency: abilitatea de a efectua anamneza în limba română, empatie și respect

5. Conditions

5.1 for lectures: calculator, videoprojector, boxe
5.2 for practical activities: sala de exersat și înregistrat interviul cu pacientul sau pacientul simulat, joc de rol, CBL, PBL

6. Specific competencies acquired

6.1 professional competencies: Achievement of knowledge about psychiatric disorders: epidemiology, psychopathology, diagnostic, treatment, prognosis and prevention. Improvement of practical skills in communication and interpersonal relationships. Improvement of empathic understanding of persons suffering from psychiatric disorders. Understanding the limits and relations between the psychic normality and abnormality.
6.2 transversal competencies: Developing of a positive and responsible attitude towards the psychiatric disorder, and psychiatry in general. Ability to communicate with patients with mental disorders.

Professionalism.

Respect and avoid stigmatization of patients with mental disorders.

Contributing to psycho-education of patient and family.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Achievement of knowledge about psychiatry and developing a respectful and professional attitude and avoid stigmatisation of patient with mental disorders

7.2 Specific objectives:

Achievement of knowledge about psychiatric disorders: epidemiology, psychopathology, diagnostic, treatment, prognosis and prevention.

Achievement of practical skills in doing mental status examination and identifying the sign and symptoms in psychiatry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in Psychiatry. Psychic normality and abnormality	online lecture, short debate about term as normal/abnormal	lecture, debate	Normal child development	2
2	Vulnerability. Social support network. Personality Disorders	online lecture, discussion about different types of personalities	lecture, questions/answers	Learning disorders, Menopausal disorder, Chromosomal disorders	2
3	Semiology of psychic functions: senses, perception, attention, memory, thinking processes, imagination and awareness	lecture	interactive sessions	Confusion, Disturbance of consciousness, Tiredness	2
4	Semiology of psychic functions: affectivity, instincts, will and voluntary activity	lecture	interactive sessions	Psychosexual dysfunction, Sleep disturbance, Somatisation, Weight gain/loss	2
5	Psychopathologic syndromes	TBL	interactive sessions	Suicide and self-harm	2
6	Psychiatric disorders related with cranial traumatism or other somatic disorder. Psychiatric emergencies	lecture	interactive sessions	Aggression/violence, Sexually transmitted diseases	2
7	Neurocognitive disorders. Intellectual disabilities	TBL	interactive sessions	Confusion, Cerebrovascular disease, Degenerative CNS disease	2

Bibliography

Bibliography

Compulsory:

1. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, vol 1 – 2Ed, LIPPINCOTT Williams and Wilkins, 2016
2. Adriana Mihai, Otilia Butiu, Child and Adolescent Psychiatry, Ed Risoprint, Cluj Napoca 2014
3. Glen O. Gabbard, M.D., Gabbard's Treatments of Psychiatric Disorders, 5th Edition, 2014
4. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, 50th Anniversary Edition, LIPPINCOTT Williams and Wilkins, 2017

Optional:

5. D. Nutt and J. Ballenger, Anxiety disorders – Panic Disorder and Social Anxiety Disorder, Ed Willey Blackwell, 2005
6. Raymond W. Lam, Depression, ed Oxford, 2012
7. David Goldberg, Robin Murray, The Maudsley Handbook of Practical Psychiatry, Ed Oxford, 2006

1. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
2. Essentials of General Surgery and Surgical Specialities. Dr. Peter Lawrence M.D, 2018.
3. Ganti Latha, Lebowitz D, Rosario J, Vera A. Step-up to USMLE Step2 CK, 5th edition. 2020

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Affective disorders	case presentation	discussions	Affective disorders	2
2	Anxiety disorders	case presentation	discussions	Anxiety/phobia	2
3	Psychotic disorders	CBL	evaluation	Schizophrenia	2
4	Substance related disorders	case presentation	discussions	Substance abuse	2
5	Neurocognitive disorder	case presentation	discussions	Cerebrovascular disease	2
6	Obsessive compulsive disorder	case presentation	discussions	Sleep disturbance	2
7	Eating disorder	case presentation	discussions	Eating disorders, Weight gain, Weight loss	2

Bibliography

Bibliography

Compulsory:

1. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, vol 1 – 2Ed, LIPPINCOTT Williams and Wilkins, 2016
2. Adriana Mihai, Otilia Butiu, Child and Adolescent Psychiatry, Ed Risoprint, Cluj Napoca 2014
3. Glen O. Gabbard, M.D., Gabbard's Treatments of Psychiatric Disorders, 5th Edition, 2014
4. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, 50th Aniversary Edition, LIPPINCOTT Williams and Wilkins, 2017

Optional:

5. D. Nutt and J. Ballenger, Anxiety disorders – Panic Disorder and Social Anxiety Disorder, Ed Willey Blackwell, 2005
6. Raymond W. Lam, Depression, ed Oxford, 2012
7. David Goldberg, Robin Murray, The Maudsley Handbook of Practical Psychiatry, Ed Oxford, 2006

1. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
2. Essentials of General Surgery and Surgical Specialities. Dr. Peter Lawrence M.D, 2018.
3. Ganti Latha, Lebowitz D, Rosario J, Vera A. Step-up to USMLE Step2 CK, 5th edition. 2020

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Respect and avoid stigmatization of patients with mental disorders.
Contributing to psycho-education of patient and family.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Problem understanding, no stigmatisation	TBL	10
- practical activities	Communication ability, practical skills	case presentation	20
Final evaluation			
- theoretical final exam	Theoretical knowledge evaluation	Written examination: questions with multiple choice answers	50
- practical final exam	Case understanding, medical thinking, treatment plan	Clinical evaluation	20

Minimal performance standards:

Minimal performance standards:

For minimal standard the students have to recognise the signs and symptoms in psychiatry, make differences between normal and pathological behaviour, elaborate a major diagnostic category and propose the treatment plan.

Must seen clinical situation list:

Affective disorders, Anxiety disorders, Psychotic disorders, Substance related disorders, Dementia

11. Must seen clinical situation list

Affective disorders, Anxiety disorders, Psychotic disorders, Substance related disorders, Dementia

12. Clinical / practical abilities

anamnesis, psychiatric evaluation, diagnosis, treatment plan

13. Appointment timetable (for students)

Conf dr Mihai Adriana

Conf. Dr. Mihai Adriana

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental radiology			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I dr Iacob Alina, Conf dr Ormenișan Alina, Șef I dr Petrovan Cecilia, Șef I dr Bogozo Balint, Șef I dr Coșarcă Adina, Șef I dr Szava Daniel, Asist univ dr Golu Vlad, Asist univ Berecki-Temistocle Despina, Asist univ Grigore Vlad, asist univ Veress Szidonia			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 21		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 7		
- other activities: 2		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Course room with multimedia equipment
5.2 for practical activities:
Multimedia equipment, View box, Dental radiology laboratory / machine

6. Specific competencies acquired

6.1 professional competencies:
The students will learn dental radiography techniques and incidents used in dental medicine and maxillo-facial surgery, X-ray anatomy of teeth and jaws. They will acquire the ability to identify on x-ray films, dental structures and facial bones and to describe any lesion if exist and they will learn radio-protection principles for medical stuff and patient.

6.2 transversal competencies:

The students should learn what dental radiology means and the radio-protection rules; the rules of asepsis and antisepsis in radiology lab. Effective teamwork and correlation of the x-ray image with dental diseases.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Acquiring basic dental radiography techniques. Learning radiological positioning (incidents) used in dental medicine and oro-maxilo-facial surgery. Theoretical knowledge and practical application of radio-protection methods for the doctor and the patient.

7.2 Specific objectives:

The ability to recognize dental structures and facial bones on X-ray images and to determine pathological modifications if exists.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Generalities - Dental X-ray device. X-ray film. X-ray image formation	Multimedia presentation	discussions	NA	2
2	How is obtained the X-ray image. General imaging principles and techniques	Multimedia presentation	discussions	NA	2
3	Radiation safety and protection in dentistry	Multimedia presentation	discussions	NA	2
4	Normal radiographic anatomy	Multimedia presentation	discussions X-ray image interpretation	NA	2
5	Imaging principles and techniques used in dental and maxillo-facial area	Multimedia presentation	discussions X-ray image interpretation	NA	2
6	Radiographic techniques used in dentistry (intraoral radiographic examination, panoramic imaging)	Multimedia presentation	discussions X-ray image interpretation	NA	2
7	Oral and Maxillo-facial Disorders. Interpretation of x-ray images	Multimedia presentation	discussions X-ray image interpretation	NA	2
8	Dental Anomalies	Multimedia presentation	discussions X-ray image interpretation	NA	2
9	Dental caries; complications of caries; periodontal disease	Multimedia presentation	discussions X-ray image interpretation	NA	2
10	Inflammatory lesions of the jaws; trauma; cysts of the jaws	Multimedia presentation	discussions X-ray image interpretation	NA	2
11	Maxillary sinus imaging; benign and malignant tumors of the jaws	Multimedia presentation	discussions X-ray image interpretation	NA	2
12	Salivary glands; temporomandibular joint	Multimedia presentation	discussions X-ray image interpretation	NA	2
13	Radiological examination in dental practice	Multimedia presentation	discussions X-ray image interpretation	NA	2
14	Wrong X-rays. Sources of errors	Multimedia presentation	discussions X-ray image	NA	2

		interpretation	
Bibliography			
1. White S.C., Pharoah M.J.: Oral Radiology: Principles and Interpretation, 5th Edition, Mosby, Philadelphia 2004			

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental X-ray device (machine). X-ray film. X-ray image formation	Presentation of the X-ray machine and how it works	discussions	NA	2
2	How radiographic image is obtained	Practical presentation of X-ray developer and accessories	discussions	NA	2
3	Radioprotection in dentistry. Practical aspects	Multimedia presentation	discussions	NA	2
4	Normal Radiographic Anatomy	Multimedia presentation	discussions	NA	2
5	Radiographic techniques used in dental medicine	X-ray images study (observation) and interpretation	discussion	NA	2
6	Radiography of the jaws (panoramic imaging)	X-ray images study (observation) and interpretation	CBL discussion	NA	2
7	Oral and Maxillofacial Disorders. Interpretation of radiographic images	X-ray images study (observation) and interpretation	discussion	NA	2
8	Dental Anomalies	X-ray images study (observation) and interpretation	discussion	NA	2
9	Dental caries; complications of caries; periodontal disease	X-ray images study (observation) and interpretation	discussions	NA	2
10	Inflammatory lesions; trauma; cysts of the jaws	X-ray images study (observation) and interpretation	discussions	NA	2
11	Diagnostic imaging of maxillary sinus pathological conditions; benign and malignant tumors of the jaws	X-ray images study (observation) and interpretation	discussions	NA	2
12	Salivary gland radiology; diagnostic imaging of the temporomandibular joint	X-ray images study (observation) and interpretation	discussions	NA	2
13	Guidelines for prescribing dental radiographs	X-ray images study (observation) and interpretation	CBL discussions	NA	2
14	Wrong X-rays. Sources of errors in dental radiology	X-ray images study (observation) and interpretation	discussions	NA	2

Bibliography			
1. White S.C., Pharoah M.J.: Oral Radiology: Principles and Interpretation, 5th Edition, Mosby, Philadelphia 2004			
2. Langlais R.: Exercises in Oral Radiology and Interpretation, 4th Edition. Elsevier Science (USA).2004			
3. SUCCESSFUL PANORAMIC RADIOGRAPHY https://www.kau.edu.sa			

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Each student should be able to recognize the normal image of the teeth and jaws on X-rays (panoramic and retroalveolar). They should also be able to identify different pathological dental and maxillo-facial lesions and to establish a general diagnosis based on X-ray image.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			

- lecture	-	-	0
- practical activities	According on discipline's specific objectives	The mean of the CBLs	30
Final evaluation			
- theoretical final exam	According on discipline's specific objectives	Written evaluation - multiple choice questions test	40
- practical final exam	According on discipline's specific objectives	Test / Multiple choice questions / X-ray interpretation	30
Minimal performance standards: Final Theoretical Examination Mark - minimum 5; mark under 5 = exam failed; Practical final exam mark - minimum 5; mark under 5 = exam failed; Final mark - minimum 5; mark under 5 = exam failed. The presence - mandatory for practical activities; 20% unmotivated absences are allowed (4 hours PA = 2 PA); more then 20% unmotivated and unrecovered absences = exam failed			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

The students should be able to interpret panoramic X-ray and retroalveolar X-ray. They must recognize normal anatomy and abnormal modifications on these images and to describe them accordingly.

13. Appointment timetable (for students)

Şef I dr Iacob Alina	30 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatric dentistry (1)			
2.2 Course coordinator: Prof dr Bica Cristina-Ioana			
2.3 Practical activities coordinator(s): Lecturer Esian Daniela PhD, Lecturer Bud Anamaria PhD, Stoica Oana PhD Student, Contac Laura PhD Student			
2.2 Course coordinator: Șef I dr Eșian Daniela-Elena			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 10		
- examinations: 6		
- other activities: 15		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Videoprojector, PC, flipchart
5.2 for practical activities: Dental treatment room, dental units, hand pieces, burs, endodontic files

6. Specific competencies acquired

6.1 professional competencies: Knowledge about primary and immature tooth structure, knowledge about simple decay and pulp disease of the primary and permanent immature teeth
6.2 transversal competencies: Knowledge about chronological steps in dental treatment, and how to chose the appropriate dental material for

best treatment results, for each clinical case. Helping the student to realize the importance of periodical updating with literature resources, in order to elevate theoretical and practical knowledge. The importance of doctor-patient relation, such as the treatment should meet the patient's expectations.

Competencies related to the study program:

Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Study of dental pathology in primary and permanent immature teeth, based on the most recent fundamental and applicative research

7.2 Specific objectives:

Correlation between lectures and practical activities, focused on etiology and treatment of dental carious lesion and pulp disease in primary and permanent immature teeth

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Tooth development	Oral presentation	-	-	2
2	Tooth eruption. Rerosption of the temporary teeth. The order and ages of primary and permanent tooth eruption	Oral presentation	-	-	2
3	Replacement of the temporary teeth. Accidents and tooth eruption disorders	Oral presentation	Test	-	2
4	Simple caries in primary teeth: Topography and evolution, Classification, diagnosis, treatment and complex restoration of primary molars	Oral presentation	-	-	2
5	Pulp disease in primary teeth	Oral presentation	-	-	2
6	Necrosis and gangrene in primary teeth	Oral presentation	-	-	2
7	Severe early caries in children S-ECC	Oral presentation	-	-	2
8	Simple caries in permanent immature teeth	Oral presentation	Test	-	2
9	Pulp disease, necrosis and gangrene in permanent immature teeth	Oral presentation	-	-	2
10	Treatment of pulp disease in permanent immature teeth	Oral presentation	-	-	2
11	Treatment of pulp necrosis and gangrene in permanent immature teeth	Oral presentation	-	-	2
12	Medication in pediatric dentistry. Dental materials in pediatric dentistry.	Oral presentation	Integrated course. Partner: Department of Dental Materials	-	2
13	Dentistry for children with special needs	Oral presentation	-	-	2
14	Pediatric emergencies in dental office	Oral presentation	-	-	2

Bibliography

- Cristina Bica, Daniela Esian, Oana Stoica, Anamaria Bud - Pediatric dentistry. Ed. University Press, Targu Mureş, 2019

Optional bibliography:

- Cameron A, Widmer RP - Handbook of Pediatric Dentistry. 3rd edition, Mosby Elsevier, 2008

- Pinkham JR - Pediatric Dentistry. Infancy through Adolescence. 4rd edition, Elsevier Saunders, St. Louis, 2005

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental clinical examination of the paediatric patient.	Practical demonstrations, case presentations	-	-	4
2	Temporary teeth versus permanent immature teeth	Practical demonstrations, case presentations	-	-	4
3	Accidents and tooth eruption disorders. Dental age	CBL	-	-	4
4	Radiological exam in children with mixed dentition	Practical demonstrations, case presentations	-	-	4
5	Diagnosis and treatment of simple caries in temporary teeth	Practical demonstrations, case presentations	-	-	4
6	Pulp diseases in temporary teeth: classification, diagnosis	Practical demonstrations, case presentations	-	-	4
7	Acquiring specific methods of treatment in temporary teeth	Practical demonstrations, case presentations	-	-	4
8	Treatment of necrosis and gangrene in temporary teeth: endodontic treatment, compromise measures, extraction	CBL	-	-	4
9	Simple caries in permanent immature teeth: diagnosis and treatment	Practical demonstrations, case presentations	-	-	4
10	Local methods of the dental caries prevention	Practical demonstrations, case presentations	-	-	4
11	Pulp inflammation in permanent immature teeth: diagnosis	Practical demonstrations, case presentations	-	-	4
12	Particular methods of treatment in permanent immature teeth	CBL	-	-	4
13	Clinical importance of the dental replacement in the support area	CBL	-	-	4
14	Paediatric dental emergencies	Practical demonstrations, case presentations	-	-	4

Bibliography

- Eşian D, Păcurar M, Jurcă A, Bud E, Bică C - Pedodonție. Îndrumător de lucrări practice. Editura University Press Tîrgu Mureş, 2014

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Knowledge about the most recent techniques and dental materials, noninvasive early diagnosis methods, treatment of initial carious lesions in early stages in primary and permanent immature teeth

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge and skills acquirement	Tests	15
- practical activities	Practical skills acquired during practical activities	CBL Sessions	25
Final evaluation			
- theoretical final exam	Knowledge and skills acquirement	Written MCQ	40
- practical final exam	Practical skills acquired during practical activities	Practical examination	20

Minimal performance standards:

- Minimal grade required for the promotion of the exam is 5 (the final grade being a result of the evaluations during the semester and the final exam)
 - The student has to attend the evaluation during the semester (TBL and CBL sessions)
 - The final practical exam is mandatory, the minimal grade required for promotion being 5
 - In case of absence at the TBL sessions, the students will receive the grade 1; there is no possibility to repeat this evaluation, but the student will be allowed to attend the final exam.
- CLINICAL and PARACLINICAL SKILLS:**
- paediatric patient's history and clinical examination (2)
 - seals (2)
 - simple caries of the temporary teeth - diagnosis, cavity preparation (2)
 - simple caries of the permanent immature teeth - diagnosis, cavity preparation (2)
 - complicated caries of the temporary teeth - diagnosis, treatment and restoration (2)
 - radiological investigations (4)
 - performing of the pediatric dental emergencies (2)
 - temporary teeth extraction (2)

11. Must seen clinical situation list**MUST SEEN CLINICAL SITUATIONS LIST:**

1. Rhizolysis of temporary teeth
2. Early eruption
3. Late eruption
4. Eruption order disorders
5. Disorders of eruption rhythm
6. Dental malposition
7. Acute caries of the temporary teeth
8. Chronic caries of the temporary teeth
9. Early childhood caries
10. Chronic pulpitis in temporary teeth
11. Necrosis and gangrene in primary teeth (facial edema)
12. Superficial cavity in permanent immature teeth
13. Deep cavity in permanent immature teeth
14. Dental trauma

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bica Cristina-Ioana	Vineri 14-15
Şef I dr Eşian Daniela-Elena	

Head of department

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Aesthetics in orthodontics			
2.2 Course coordinator: Prof dr Păcurar Mariana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 2		
- other activities: 2		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Păcurar Mariana

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Orthodontics (1)
2.2 Course coordinator: Prof dr Păcurar Mariana
2.3 Practical activities coordinator(s):
2.4 Year of study: V 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 16		
- tutorial activities: 4		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:**8.1 Content of lecture, semester 1**

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain**10. Evaluation**

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

MUST SEEN CLINICAL CASES - mandatory clinical cases presented to students during the semester:

1. Maxillary compression with protrusion
2. Maxillary compression without protrusion
3. Mandibular lateral shift
4. Crowding
5. Spacing
6. Upper lateral incisor agenesis
7. Agenesis of second bicuspid
8. Retention of canine
9. Class II / 1 malocclusion
10. Class II / 2 malocclusion
11. Open bite
12. Functional class III malocclusion
13. Anatomical class III malocclusion

12. Clinical / practical abilities

Minimum standards for practical works during the semester, which conditions the participation in the practical and theoretical examination in the session:

- Static monomaxillary exam, study model 2
- Static bimaxillary exam, study model 2
- Orthodontic impression 2
- Analysis of the study cast (measurements) 2
- Photostatic Exam 2
- Radiological exam: OPG 3
- Analysis of lateral cephalometry 3
- Analysis of the documentation for cl. I. malocclusion 2
- Analysis of the documentation for cl. II / 1. malocclusion 2
- Analysis of the documentation for cl. II / 2. malocclusion 2
- Analysis of the documentation for cl. III. malocclusion 2
- Orthodontic Sheet 2
- Preparation of the laboratory sheet 2
- Case presentation 2

13. Appointment timetable (for students)

Prof dr Păcurar Mariana	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral and maxillo-facial surgery (1)			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Șef.Lucr. Dr Cosarca Adina Simona, Șef. Lucr Dr. Iacob Alina, Asistent universitar Drd. Bereczki-Temistocle Despina-Luciana, Șef Lucrări Dr. Petrovan Cecilia, Asistent universitar Drd. Grigore Vlad, Asistent universitar Drd. Veres Szidonia, Drd. Golu Mihai-Vlad,			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 7		
- examinations: 12		
- other activities: 15		
3.8 Total hours of individual study: 98		
3.9 Total hours: 154		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Laptop
5.2 for practical activities: Surgery office, demonstration room, operating rooms

6. Specific competencies acquired

6.1 professional competencies: Description of concepts, theories and fundamental notions regarding the clinical aspects of the studied pathology. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms in order to develop a presumptive diagnosis. The use of therapeutic resources to formulate the treatment plan as well as the correct interpretation of clinical and paraclinical data. The application of the acquired clinical techniques and knowledge to be integrated with the paraclinical data with the aim of establishing the positive, differential diagnosis, as well as establishing the prognosis. Realization of a treatment plan in

accordance with the stage of the disease and its individualized adaptation to the particularities of the patient. Examination, diagnosis, treatment (if it belongs to the dentist's competence), respectively referral to the maxillofacial surgeon (when it exceeds his competence): of dental eruption disorders and accidents; of inflammatory lesions (abscesses); of dental sinusitis; of teeth, bones, and soft parts traumas; of maxillary cystic lesions; and pain syndromes in the OMF sphere. the symptoms characteristic of each condition, useful for diagnosing

6.2 transversal competencies:

Identification of the objectives to be achieved, the available resources, the conditions for finalising the treatment plan, work stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying communication techniques and effective work within the team and in relation to the patient. Effective use of communication resources and assisted professional training

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Familiarization of students with the pathology of tooth eruption, dental inclusions, perimaxillary infections; injuries of soft and hard oro-maxillo-facial parts; odontogenic sinusitis, maxillary cysts; pain syndromes in the territory of the OMF.

7.2 Specific objectives:

Carrying out the anamnesis, the complete and correct clinical examination as well as some basic diagnostic procedures, requesting the appropriate complementary examinations, formulating a positive and differential diagnosis. Creating a therapeutic plan individualized and performing basic therapeutic procedures, including those aimed at qualified first aid. Familiarization of students with various clinical cases, the techniques of treatment in cases of perimaxillary inflammatory conditions; in the case of pathological dental eruption, craniofacial trauma; in the case of maxillary cysts; of odontogenic sinusitis and neuralgic pain in the OMF sphere.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental eruption pathology	Oral presentation + multimedia, discussions	-	-	2
2	Dental impaction	Oral presentation + multimedia, discussions	-	-	2
3	1 Oral and maxillo facial nonspecific infections Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2
4	2 Oral and maxillo facial nonspecific infections	Oral presentation + multimedia, discussions	-	-	2
5	Maxillary bone nonspecific infections	Oral presentation + multimedia, discussions	-	-	2
6	Oral maxillo facial specific infections. Oral maxillo facial lymph node infection	Oral presentation + multimedia, discussions	-	-	2
7	Soft tissue injuries -Maxillofacial traumatology	Oral presentation + multimedia, discussions	-	-	2
8	Dentoalveolar trauma- Maxillofacial traumatology	Oral presentation + multimedia, discussions	-	-	2
9	Mandibular trauma	Oral presentation + multimedia, discussions	-	-	2
10	Midfacial fractures(Fracture of the nose, zygoma, orbit and maxilla)	Oral presentation + multimedia, discussions	-	-	2
11	Maxillofacial traumatology-evolution and complications	Oral presentation + multimedia, discussions	-	-	2
12	Maxillary cysts	Oral presentation + multimedia, discussions	-	-	2
13	13. Odontogenic maxillary sinusitis Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2

14	Oral and maxillo facial pain. Neuralgia	Oral presentation + multimedia, discussions	-	-	2
Bibliography References: Mandatory References: 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București Optional References: 1. Burlibașa C.: Chirurgie Orală și Maxilofacială, Editura Medicală, București, 2003 2. Rotaru A., G. Băciut, Rotaru H.: Chirurgie Maxilo-Facială vol. I-II, Editura Medicală Universitară „Iuliu Hațieganu”, Cluj Napoca, 2003 3. Szabó Gy.: Oral and Maxillofacial Surgery, Semmelweis Publishing House, Budapest, 20 4. UJ Moore, Principles of oral and maxillofacial surgery, Sixth Edition, Wiley Blackwell					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental eruption pathology	Case presentation, multimedia, discussions	-	-	2
2	Dental impaction	Case presentation, multimedia, discussions	-	-	2
3	1 Oral and maxillo facial nonspecific infections	Case presentation, multimedia, discussions	-	-	2
4	2 Oral and maxillo facial nonspecific infections	Case presentation, multimedia, discussions	-	-	2
5	Maxillary bone nonspecific infections	Case presentation, multimedia, discussions	-	-	2
6	Oral maxillo facial specific infections. Oral maxillo facial lymph node infection	CBL	CBL1	-	2
7	Soft tissue injuries -Maxillofacial traumatology	Case presentation, multimedia, discussions	-	-	2
8	Dentoalveolar trauma- Maxillofacial traumatology	Case presentation, multimedia, discussions	-	-	2
9	Mandibular trauma	Case presentation, multimedia, discussions	-	-	2
10	Midfacial fractures (Fracture of the nose, zygoma, orbit and maxilla)	Case presentation, multimedia, discussions	-	-	2
11	Maxillofacial traumatology-evolution and complications	Case presentation, multimedia, discussions	-	-	2
12	Maxillary cysts	CBL	CBL2	-	2
13	Odontogenic maxillary sinusitis Oral presentation + multimedia, discussions	Case presentation, multimedia, discussions	-	-	2
14	Oral and maxillo facial pain. Neuralgia	Case presentation, multimedia, discussions	-	-	2

Bibliography References: Mandatory References: 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București Optional References: 1. Burlibașa C.: Chirurgie Orală și Maxilofacială, Editura Medicală, București, 2003 2. Rotaru A., G. Băciut, Rotaru H.: Chirurgie Maxilo-Facială vol. I-II, Editura Medicală Universitară „Iuliu Hațieganu”, Cluj Napoca, 2003 3. Szabó Gy.: Oral and Maxillofacial Surgery, Semmelweis Publishing House, Budapest, 20 4. UJ Moore, Principles of oral and maxillofacial surgery, Sixth Edition, Wiley Blackwell					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Correct examination of patients with various dental eruption disorders, with non-specific perimaxillary inflammation, with bone infections (both in most cases of dental cause); with oro-maxillo-facial trauma; with maxillary cysts; with sinusitis of dental cause, with painful syndromes in the territory of the OMF (elimination of possible dental causes); their diagnosis and treatment when the extent of the injuries allows the approach in the office, or redirecting the patient to other services when the complexity of the case requires it.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the Department of oral and maxillofacial surgery	-	0
- practical activities	According to the Department of oral and maxillofacial surgery	CBL	30
Final evaluation			
- theoretical final exam	According to the Department of oral and maxillofacial surgery	Whritten evaluation-multiple choice test-	40
- practical final exam	According to the Department of oral and maxillofacial surgery	Oral /written revision on pathology studied in the course of the semester-Verification	30
Minimal performance standards: Final lecture exam grade – minim 5; notă < 5 = failed; Final pa exam grade (verificare) – minim 5; notă < 5 = failed; Final grade – minim 5; notă < 5 = failed.			
Attendance- mandatory for practical activities. 20% of motivated absences (with the acceptance of the dean's office) can be reccuperated. Additional informations will pe provided by the lecture/practical activities coordinator/s			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Patient examination with specific pathology -making the correct diagnosis

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	30 minutes after course

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiotherapy in dental medicine
2.2 Course coordinator: Șef I dr Chiș Monica
2.3 Practical activities coordinator(s): asist. univ. dr. Claudiu Neagu, sef lucru. dr. Monica Chiș
2.4 Year of study: V 2.5 Semester: 1 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 8		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 4		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: biophysics, anatomy, neurophysiology, physiopathology
4.2 competency: NA

5. Conditions

5.1 for lectures: Emergency County Hospital - Department of Rheumatology
5.2 for practical activities: Emergency County Hospital - Department of Rheumatology

6. Specific competencies acquired

6.1 professional competencies: The main objective of this lecture is to offer to the medical student an image of the problems imposed by different pathologies concerning the quality of life of the patients and also to offer solutions, aiming the improvement of their outcome by rehabilitation. - The medical student should be able to complete a whole psychiatric evaluation in order to establish the status and the future management of the patient.
6.2 transversal competencies: The medical student should be able to give solutions (in terms of rehabilitations programme) and to apply them

aiming a major reintegration of the patient in society, taking into account the pro and cons according with the pathology.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Rehabilitation is a teamwork, so in order to fulfill it the medical student should find and to adapt its position in a team whose main aim is the needs of the patient. So, she/he would be able to communicate with the nurse, the occupational therapist, the nurse and therapist specialized in physical rehabilitation, the psychologist and the physician of the current disease.

7.2 Specific objectives:

The secondary objectives, after following this lecture, are:

- To be able to evaluate a patients from the perspective of the physiatric physician,
- To be able to apply the principles of rehabilitation,
- To be able to recognize the benefits of a complex rehabilitation plan
- To know how to work in a rehab team

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction notions - physics in rehabilitation	oral media presentation	Rehabilitation management	pain management,	2
2	Physical modalities	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
3	Kinetotherapy (medical gymnastics)	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
4	Rehabilitation in connective tissue diseases	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
5	Rehabilitation in ankylosing spondylitis	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
6	Rehabilitation in osteoarthritis and LBP (low back pain)	oral media presentation	TBL	pain management, disorders of muscle	2
7	Rehabilitation in TMP joint affections. Rehabilitation of the facial nerve injury	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2

Bibliography

Mandatory bibliography:

1. Physical & Rehabilitation Medicine for Medical students, MG Ceravolo, N. Christodoulou, 2018, ISBN: 978-88-7051-634-4

Support bibliography:

1. Physical Medicine and Rehabilitation (fourth edition), Randall L. Braddom, Elsevier Saunders ed., 2011, 1-1506, ISBN: 978-1-4137-70884-4

2. Physical Medicine and Rehabilitation Secrets (third edition), B. J. O'Young, Mosby Elsevier ed., 2008, 1-748, ISBN- 13: 978-1-4160-3205-2

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The physiatric history. Physical examination (muscle testing, goniometry)	PPT	practical skills	pain management, disorder of muscle	2
2	Electrotherapy	PPT	practical skills	pain management	2
3	Heat therapies	PPT	practical skills	pain management	2
4	Hydrokinetotherapy	PPT	practical skills	pain management	2

5	Massage	PPT	practical skills	pain management	2
6	Clinical case presentations	PPT	practical skills	pain management	2
7	Clinical case presentations	PPT	CBL	pain management	2
Bibliography Bibliography Mandatory bibliography: 1. Physical & Rehabilitation Medicine for Medical students, MG Ceravolo, N. Christodoulou, 2018, ISBN: 978-88-7051-634-4 Support bibliography: 1. Physical Medicine and Rehabilitation (fourth edition), Randall L. Braddom, Elsevier Saunders ed., 2011, 1-1506, ISBN: 978-1-4137-70884-4 2. Physical Medicine and Rehabilitation Secrets (third edition), B. J. O'Young, Mosby Elsevier ed., 2008, 1-748, ISBN- 13: 978-1-4160-3205-2					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The community is in search of a multimodal approachment of different pathologies in order to alleviate the quality of life of the patients and to improve their condition and by thus the society. The society is expecting active individuals capable to innovate. Knowing the needs will provide the dental students the opportunity to use all the resources in order to improve the dental management.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	to be able to upgrade his/her grade from the individual evaluation to the team one such showing his/her gaining and using new knowledges.	MQT-TBL	10
- practical activities	To be able to outline the main objectives in rehab. At least 5 out of 10.	Clinical case - CBL	20
Final evaluation			
- theoretical final exam	At least 6 out of 10.	MQT	70
- practical final exam	NA	NA	0
Minimal performance standards: The medical student should be able to perform/ to apply: -the physiatric history -the physical examination -the therapeutical exercise – contraindications (major) -the physical agent modalities - contraindications (major) -the manipulation, traction and massage - contraindications (major) Must seen: AS, OA, low back pain, facial nerve injury			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Chiş Monica	Marti intre orele 11:00-14:00 Sectia Clinica Reumatologie, etaj IV, SCJU Mures

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endocrinology concepts			
2.2 Course coordinator: Prof dr Pașcanu Maria-Ionela			
2.3 Practical activities coordinator(s): -			
2.2 Course coordinator: Asist dr Reti Zsuzsanna			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 0		
- examinations: 10		
- other activities: 4		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: x
4.2 competency: x

5. Conditions

5.1 for lectures: acces internet, PC, videoproiector
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: - descrierea notiunilor fundamentale despre producerea bolilor endocrine, a semnelor si simptomelor caracteristice fiecarei afectiuni utile pentru orientarea diagnosticului clinic, descrierea strategiilor profilactice și terapeutice, - identificarea factorilor de risc în bolile endocrine, a problemelor populaționale de sănătate în domeniul endocrinologiei

6.2 transversal competencies:

- conștientizarea nevoii de formare continuă de-a lungul întregii vieți; utilizarea eficientă a resurselor și tehnicilor de învățare pentru dezvoltarea personală și profesională; cunoștințele, abilitățile și atitudinile învățate asigură o bază solidă pentru formarea ulterioară,

- implicarea în competențe sociale și civile, în probleme de sănătate publică în domeniul endocrinologiei, prin informarea/educarea populației privind prevenția și managementul factorilor de risc ale bolilor endocrine

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

a promova o pregătire de varf în endocrinologie, a motiva și inspira cercetarea clinică și experimentală endocrină, și a pregăti studenții în practicarea activităților medicale și de cercetare la un nivel academic în domeniul endocrinologiei

7.2 Specific objectives:

- stabilirea importanței endocrinologiei în cadrul planului de învățământ universitar,

- sublinierea relației strânse existente între endocrinologie și celelalte specialități medicale și chirurgicale,

- stabilirea unui barem minim de cunoștințe necesar pentru desfășurarea adecvată a activității medicale,

- pregătirea studenților de a înțelege/învăța mecanismele de bază în endocrinologie, acțiuni și interacțiuni hormonale, fiziologia endocrină și patofiziologia bolilor endocrine

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. The hormone's classification, measuring methods, biorhythms, action and receptors. Etiology and pathogeny of endocrine diseases. Hypothalamus – superior neurovegetative center and neuroendocrine coordinator. Congenital hypothalamic dysfunctions. Hypothalamic-neurohypophysis system: AVP, oxytocin. Diabetes insipidus. The anterior pituitary gland. Empty Sella syndrome.	Oral presentation +multimedia support	-	Pituitary gland pathology, hydro-electrolyte imbalance, cerebral tumors, appetite disorders, headache, visual impairment, polyuria, nausea, weight loss, weight gain, sleep disturbance	2
2	The pituitary tumoral syndrome. Pituitary adenomas. Acromegaly. Prolactinoma and other hyperprolactinemia. Cushing disease. Pituitary failure.	Oral presentation +multimedia support	-	Pituitary gland pathology, brain tumors, headache, visual impairment, nausea, weight gain, weight loss	2
3	Thyroid gland - Anatomy, embryology, physiology, biosynthesis and action of the thyroid hormones. Thyroid function regulation. Thyrotoxicosis syndrome. Basedow Graves' disease. Hypothyroidism – newborn, child, adult, old age, pregnancy. Hypothyroid coma. Acute, subacute and chronic thyroiditis	Oral presentation +multimedia support	-	Thyroid Pathology, Palpitations, Visual Impairment, Blindness, Weight Loss, Orbital Inflammation, Learning Disorders, Deafness, Anemia, Constipation, Dysphagia, Short stature, Weight gain, Edema	2
4	Endemic and sporadic goiter. Thyroid tumors. Benign tumors. Thyroid cancer – diagnostic and therapeutic course of action. Morphology and physiology of the parathyroid glands. Hyperparathyroidism.	Oral presentation +multimedia support	-	Thyroid pathology, Head and neck cancer. Fever of unknown etiology. Dysphagia, cervical nodule, adenopathy. Disorders of calcium and vitamin D metabolism	2
5	Osteoporosis. Hypoparathyroidism. Spasmophilia.	Oral presentation +multimedia support	-	Osteoporosis, Paget's Disease Back pain	2

6	Chronic primary adrenal failure. (Addison disease). Addisonian crisis. Cushing syndrome. Pheochromocytoma. Paraganglioma.	Oral presentation +multimedia support	-	Hyperfunction of the adrenals. Hypertension. Diabetes mellitus. Adrenal failure	2
7	Normal and pathological puberty. Male hypogonadism. Primary ovarian failure. Polycystic ovary syndrome. Menopause. Obesity: Etiology, pathogenesis. The metabolic syndrome.	Oral presentation +multimedia support	-	Disorders of puberty, Hypogonadism, Infertility, Gynecomastia, Menstrual disorders, Contraception, Lipid metabolism disorders, Diabetes mellitus, Acne, Weight gain	2

Bibliography

Bibliography

1. Kumar and Clark's Clinical Medicine, 10th edition 2021, Elsevier – chapter 19 Bone disease (pg 471-485) & 21 Endocrinology (pg 583-650).
 2. Ionela M. Pascanu, Florina Gliga, Gabriela Madaras, Raluca Pop, Corina Radu-Pop, Zsuzsana Szanto: ENDOCRINOLOGY LECTURE, Litografia UMF Targu Mures, 2012, 232 p.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Detinerea unui barem minim de cunoștințe specifice endocrinologiei pentru desfășurarea adecvată a activității medicale

Dobandirea capacității de a utiliza algoritmele diagnostice și terapeutice existente

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Assignment - written paper Essay – teams of maximum 5 students = 30% of the final grade. (Essays will be graded from 1 to 10 based on the originality, scientific content, subject relevance). Essays must contain 400-600 words (without title, authors, references) and they must be structured as a literature review – introduction, subject relevance, existing data on the subject, conclusions, future research ideas. References (minimum 5) will be cited in the order of appearance in the text. Essays shorter than 400 words or longer than 600 words won't be graded. Students must choose the topic (general topic – “oral disturbances in endocrine disease”)	grading from 1 to 10, based on originality, scientific information	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	basic notions in general endocrinology, etiopathogenesis, clinical symptoms and signs of endocrine disease, laboratory and imaging investigations, differential diagnosis, therapeutic strategy of endocrine diseases	test 25-50 multiple choice questions	70
- practical final exam	-	-	0
Minimal performance standards: Correct answer to at least half of the questions at the end of the semester. Clinical recognition of endocrine diseases, interpretation of paraclinical investigations (hormonal tests, tumour markers, MRI), identifying endocrine emergencies, identifying objectives and therapeutic priorities, medical prescriptions, identifying endocrine risk factors and their prophylaxis.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Pașcanu Maria-Ionela	
Asist dr Reti Zsuzsanna	vineri 11-12

Head of departament	Course coordinator	Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral implantology			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Șef Lucrări Dr. Coșarcă Adina-Simona, Asistent universitar Drd. Bereczki-Temistocle Despina-Luciana, Asistent universitar Drd. Grigore Vlad, Asistent universitar Drd. Veres Szidonia, Șef Lucrări Dr. Iacob Alina-Bianca, Șef Lucrări Dr. Petrovan Cecilia, Drd. Golu Mihai-Vlad,			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 14		
- examinations: 3		
- other activities: 11		
3.8 Total hours of individual study: 84		
3.9 Total hours: 112		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture room, Laptop
5.2 for practical activities:
Operating room, demonstrating room

6. Specific competencies acquired

6.1 professional competencies:
Correct local and general examination of the patient, in order to establish the indication for dental implants placement. Theoretical knowledge of local and general contraindications for implants placement. Theoretical knowledge of the insertion techniques of different types of implants; improving the bone offer; accidents, complications that occur and ultimately lead to the removal of the implant. Knowing how to assure a correct follow-up of patients with implants.

6.2 transversal competencies:

-Additional competence Compliance with the rules of asepsis and antisepsis, of labor protection and of the lead practitioner. Effective teamwork.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)**7.1 General objective:**

Introduction of implantology treatment in dentistry treatment. Good knowledge of local and general indications and contraindications of implant insertion.

7.2 Specific objectives:

7.2 Specific objectives Theoretical knowledge of common insertion methods for different types of implants in oral cavity. Theoretical knowledge of bone grafting. Postoperator treatment, hospitalization for implant patients, implant hygiene

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The historical development of dental implants. Anatomy of the maxillary and mandibular bone. Implant clasification	Oral presentation + multimedia, Discussions	-	-	2
2	Patient examination in cases of implant insertion. Bone supply	Oral presentation + multimedia, Discussions	-	-	2
3	Indications, contraindications in implantology	Oral presentation + multimedia, Discussions	-	-	2
4	Surgical principles for the implantology Osseointegration	Oral presentation + multimedia, Discussions	-	-	2
5	Biomaterials used for improving the bone substrate	Oral presentation + multimedia, Discussions	-	-	2
6	Hard tissue surgery and bone grafting	Oral presentation + multimedia, Discussions	-	-	2
7	Accidents and complications in implantology	Oral presentation + multimedia, Discussions	-	-	2

Bibliography

Arung K. Garg, Implant Dentistry- A practical Approach, 2010, Mosby, Elsevier

Pankaj P. Singh, A. Norman Cranin, Atlas of Oral Implantology, Third Edition, 2010, Mosby, elsevier

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Implant clasification Implant sistem components	Multimedia and oral presentation, discussions	-	-	2
2	Patient examination in implantology	Multimedia and oral presentation, discussions	-	-	2
3	Biomaterials used for improving the bone substrate	Multimedia and oral presentation, discussions	-	-	2
4	Implants placement	CBL	CBL 1	-	2

5	Implants placement	Multimedia and oral presentation, discussions	-	-	2
6	6. Hard tissue surgery and bone grafting Multimedia and oral presentation, discussions	Multimedia and oral presentation, discussions	-	-	2
7	Accidents and complications in implantology	Multimedia and oral presentation, discussions	-	-	2

Bibliography

Arun K. Garg, Implant Dentistry, a practical approach, 2010, Mosby, Elsevier

Pankaj P. Singh, A. Norman Cranin, Atlas of oral implantology, Third edition, 2010, Mosby, Elsevier

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the Department of Oral and maxillofacial surgery	-	0
- practical activities	According to the Department of Oral and maxillofacial surgery	CBL	30
Final evaluation			
- theoretical final exam	According to the Department of Oral and maxillofacial surgery	Written test - multiple choice questions	40
- practical final exam	According to the Department of Oral and maxillofacial surgery	oral/written test	30

Minimal performance standards:

Final lecture exam grade – minim 5; notă < 5 = failed;

Final pa exam grade – minim 5; notă < 5 = failed;

Final grade – minim 5; notă < 5 = failed

Attendance : mandatory for practical activities. 20% of motivated (with the dean's office accept) absences can be recuperated- further details are decided by the course/practical activities coordinator/s

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	30 minutes after course

Head of department

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatric dentistry (2)			
2.2 Course coordinator: Șef I dr Eșian Daniela-Elena			
2.3 Practical activities coordinator(s): Lecturer Esian Daniela PhD, Lecturer Bud Anamaria PhD, Stoica Oana PhD Student, Contac Laura PhD Student			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4/12	3.2 lecture: 0/4	3.3 practical activities: 4/8
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 2		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 38		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, PC, flipchart
5.2 for practical activities:
Dental treatment room, dental units, hand pieces, burs, endodontic files

6. Specific competencies acquired

6.1 professional competencies:
Description of the physiological and pathological aspects regarding the occurrence of dental anomalies based on the knowledge of anatomy, embryology and oral pathology
Recognition and diagnosis of muco-periodontal in children and adolescents based on clinical and complementary examinations
The application of basic knowledge to develop a complex diagnosis and establish a therapeutic plan
6.2 transversal competencies:
Helping the student to realize the importance of an efficient work in a multidisciplinary team and also the

importance of a good doctor- patient relation, such as the treatment should meet the patient's expectations.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Knowledge of dental anomalies, muco-periodontal pathology and dental traumatology in children and adolescents

7.2 Specific objectives:
 Acquiring the particularities of the odontogenetic disorders in the form of different primary and secondary dental anomalies
 Knowledge of clinical and therapeutic aspects of temporary teeth traumatic injuries
 Knowledge of clinical and therapeutic aspects of traumatic injuries in immature permanent teeth
 Knowledge of clinical and therapeutic aspects of partial and total edentations in children and adolescents
 Conceiving a complex pedodontic treatment plan based on the child's age and general health status

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Theory of psychology in pediatric dentistry practice	Oral presentation and multimedia	-	-	2
2	Primary dental anomalies	Oral presentation and multimedia	-	-	2
3	Secondary dental anomalies	Oral presentation and multimedia	-	-	2
4	Amelogenesis imperfecta. Dentinogenesis imperfecta	Oral presentation and multimedia	-	-	2
5	Traumatic dental injuries in temporary teeth	Oral presentation and multimedia	-	-	2
6	Traumatic dental injuries in permanent teeth	Oral presentation and multimedia	-	-	2
7	Traumatic avulsion. Possibilities of replanting and immobilization	Oral presentation and multimedia	-	-	2
8	Oral lesions in childhood and adolescence I. Oral manifestations of systemic diseases	Oral presentation and multimedia	-	-	2
9	Oral lesions in childhood and adolescence II. Oral manifestations of systemic diseases	Oral presentation and multimedia	-	-	2
10	Prosthetic treatment in pediatric dentistry	Oral presentation and multimedia	-	-	2
11	Techniques for surgical treatment in pediatric dentistry	Oral presentation and multimedia	-	-	2
12	The pedodontic approach of patients with cleft lip and palate	Oral presentation and multimedia	-	-	2
13	Methods of sedation in pediatric dentistry	Oral presentation and multimedia	-	-	2
14	Permanent first molar pathology	Oral presentation and multimedia	-	-	2

Bibliography

Bibliography

- Cristina Bica - Pedodontie-diagnostic și tratament. Ed. University Press Tg.Mureș, 2013
 - Cameron A, Widmer RP - Handbook of Pediatric Dentistry. 3rd edition, Mosby Elsevier, 2008
 - Elisabeta Bratu, Florica Glăvan – Practica Pedodontică. Ed. Orizonturi Universitare, Timișoara, 2005

Optional bibliography:

- Duggal M, Cameron A, Toumba J- Paediatric Dentistry at a Glance, Wiley-Blackwell, 2013
 - Masthan KMK- Textbook of pediatric oral pathology, First edition, Jaypee, 2011
 - Pinkham JR - Pediatric Dentistry. Infancy through Adolescence. 4rd edition, Elsevier Saunders, St. Louis, 2005

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Treatment techniques in simple and complicated caries of deciduous teeth-a review	Demonstrations, interactive discussions	-	-	6
2	Treatment techniques in simple and complicated caries of immature permanent teeth-a review	Case Based Learning	Students will approach a complex clinical case	-	6
3	Diagnosis and treatment of crown and root fractures in deciduous teeth	Demonstrations, interactive discussions	-	-	6
4	Diagnosis and treatment of crown and root fractures in immature permanent teeth	Case Based Learning	Students will approach a complex clinical case	-	6
5	Methods of immobilization in dental trauma injuries	Demonstrations, interactive discussions	-	-	6
6	Treatment options in dental anomalies	Demonstrations, interactive discussions	-	-	6
7	Prosthetic treatment in children and adolescents. Interceptive therapeutic measures	Demonstrations, interactive discussions	-	-	6
8	Diagnosis and treatment of oral lesions in childhood diseases	Demonstrations, interactive discussions	-	-	6
9	Diagnosis and treatment of oral lesions in systemic diseases	Demonstrations, interactive discussions	-	-	6
10	Methods of therapeutic approach for children with cleft lip and palate	Demonstrations, interactive discussions	-	-	6
11	Assessment of the psychological status in pediatric dentistry	Demonstrations, interactive discussions	-	-	6
12	Complex diagnosis in pediatric dentistry. Clinical case presentation	Case Based Learning	Students will approach a complex clinical case	-	6
13	Prophylaxis of the permanent first molar	Demonstrations, interactive discussions	-	-	6
14	Medication in pediatric dentistry (antibiotics, anti-inflammatory, analgesic therapy)	Demonstrations, interactive discussions	-	-	6
Bibliography Bibliography Cristina Bică - Pedodonție-diagnostic și tratament. Ed. University Press Tg. Mureș, 2013 Eșian D, Păcurar M, Jurcă A, Bud E, Bică C - Pedodonție. Îndrumător de lucrări practice. Editura University Press Tîrgu Mureș, 2014					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge and skills acquirement	Test	15
- practical activities	Practical skills acquired during practical activities	CBL sessions	25
Final evaluation			
- theoretical final exam	Knowledge and skills acquirement	Written MCQ	40
- practical final exam	Practical skills acquired during practical activities	Practical examination	20
Minimal performance standards: Minimal performance standards: - Minimal grade required for the promotion of the exam is 5 (the final grade being a result of the evaluations during the semester and the final exam)			

- The student has to attend the evaluation during the semester (TBL and CBL sessions)
- The final practical exam is mandatory, the minimal grade required for promotion being 5
- In case of absence at the TBL sessions, the student will receive the grade 1; there is no possibility to repeat this evaluation but the student will be allowed to attend the final exam

Must seen clinical situation list :

1. Severe early childhood caries
2. Clinical forms of pulpitis in temporary teeth
3. Necrosis in primary teeth (periapical pathology)
4. Clinical forms of reversible pulpitis of young permanent teeth
5. Complicated necrosis of permanent immature teeth
6. Assessment of a case with dental trauma in emergency
7. Crown and root fractures of primary teeth
8. Luxations in primary teeth
9. Crown and root fractures of permanent teeth
10. Luxations in permanent teeth
11. Avulsion in permanent teeth
12. Dental anomalies of size, shape, number and structure
13. Oral pathology in children

11. Must seen clinical situation list

1. Severe early childhood caries
2. Clinical forms of pulpitis in temporary teeth
3. Necrosis in primary teeth (periapical pathology)
4. Clinical forms of reversible pulpitis of young permanent teeth
5. Complicated necrosis of permanent immature teeth
6. Assessment of a case with dental trauma in emergency
7. Crown and root fractures of primary teeth
8. Luxations in primary teeth
9. Crown and root fractures of permanent teeth
10. Luxations in permanent teeth
11. Avulsion in permanent teeth
12. Dental anomalies of size, shape, number and structure
13. Oral pathology in children

12. Clinical / practical abilities

Treatment of simple and complicated decay in deciduous and permanent teeth 3
 Dental trauma injuries of deciduous teeth. Treatment plan 2
 Dental trauma injuries of permanent teeth. Treatment plan 2
 Primary and secondary dental anomalies. Treatment plan/Restorative treatment 2
 Complex diagnosis and treatment plan in temporary and mixed dentition (clinical cases) 1
 Complex diagnosis and treatment plan in temporary and mixed dentition(OPG)2
 Pediatric emergencies in dental office 1

13. Appointment timetable (for students)

Şef I dr Eşian Daniela-Elena	Luni 9-10 Joi 9-10

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontology (1)
2.2 Course coordinator: Șef I dr Benedek Csilla
2.3 Practical activities coordinator(s):
2.4 Year of study: V 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 28		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 18		
- tutorial activities: 14		
- examinations: 28		
- other activities: 14		
3.8 Total hours of individual study: 130		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Benedek Csilla	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Implanto-prosthetic therapy			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): Prof dr Suci Mircea, Conf dr Bechir Edwin Sever, Conf dr Biris Carmen Ioana, Sef Lurari dr Horga Claudiu, Asist Univ dr Lazar Ana Petra, Asist Univ dr Bardocz Veress Zsuzsanna			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 20		
- tutorial activities: 0		
- examinations: 2		
- other activities: 10		
3.8 Total hours of individual study: 72		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Multimedia Equipment
5.2 for practical activities: Practical demonstrations, case studies / multimedia equipment, documentary support for clinical cases.

6. Specific competencies acquired

6.1 professional competencies: Technical or professional skills: Acquiring the necessary knowledge to develop an implant-prosthetic treatment plan. Acquiring the theoretical knowledge that involves choosing the implant according to the future prosthetic work. The ability to acquire knowledge about choosing the ideal candidate for implant overdenture.
6.2 transversal competencies: Notions about the concepts of prosthetic implant therapies Notions related to paraclinical investigations useful in formulating effective diagnoses and treatment plans.

Affective-value skills:

Communication with the patient.

Communication with the dental technician.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge of overdenture concepts, indications, contraindications, overdenture variants on implants.

7.2 Specific objectives:

Learning the methods of examining patients. Understanding the importance of the concept of implanto-prosthetic oral rehabilitation. Acquiring the necessary knowledge to develop an individualized implant-prosthetic treatment plan.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The candidate for implant prosthetics.	Multimedia presentation	-	-	1
2	Anatomical consequences of edentulousness.	Multimedia presentation	-	-	1
3	The advantages of prosthetic restorations on implants.	Multimedia presentation	-	-	1
4	General terminology of implants and prosthetic attachments.	Multimedia presentation	-	-	1
5	Establishing the prosthetic treatment plan.	Multimedia presentation	TBL	-	1
6	Impression taking and fabrication of prostheses in implantology.	Multimedia presentation	-	-	1
7	Prosthetic considerations.	Multimedia presentation	-	-	1
8	Prosthetic principles of edentulous restoration by dental implants.	Multimedia presentation	-	-	1
9	Clinical situations for different types of edentulousness and their treatment with dental implants.	Multimedia presentation	-	-	1
10	Clinical situations for different types of edentulousness and their treatment with dental implants.	Multimedia presentation	-	-	1
11	Clinical variants of implant treatment.	Multimedia presentation	TBL	-	1
12	Temporary prosthesis on implants.	Multimedia presentation	-	-	1
13	Definitive prosthesis on implants.	Multimedia presentation	-	-	1
14	Dispensing patients with prosthetic works on implants.	Multimedia presentation	-	-	1

Bibliography

1. Lecture Notes

2. Jensen., The sinus bone graft, Quintessence Publishing, 2006.

3. Davarpanah, Szmukler-Moncler. Immediate loading of dental implants, Quintessence International 2008.

4. Misch, Contemporary implant dentistry, Elsevier Mosby 2005.

5. Misch C.E., Dental Implant Prosthetics, Elsevier Mosby, 2005.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Prosthetic components used in implantology.	Presentation	-	-	1
2	OPG examination in implantology - indications, contraindications, advantages, disadvantages, limits.	OPG Examination	-	-	1
3	The use of CBCT examination in the exploration of the pre-implant bone substrate.	CBCT Examination	-	-	1
4	CBCT - applications, advantages and disadvantages.	CBCT Interpretation	-	-	1
5	CBCT-guided implant treatment – planning and execution techniques.	CBCT implant insertion simulation.	-	-	1
6	Preparation of the treatment plan in implantology.	Presentation	-	-	1
7	CBL	CBL	-	-	1
8	Preliminary impression, preliminary model, individual tray.	Practical demonstration.	-	-	1
9	The final impression. Realization of the working model.	Practical demonstration.	-	-	1
10	Realization of the mesostructure. The choice of calcinable abutments.	Practical demonstration.	-	-	1
11	CBL	CBL	-	-	1
12	Realization of the prosthesis model with implant anchorage.	Practical demonstration.	-	-	1
13	Making the finished prosthetic piece.	Practical demonstration.	-	-	1
14	Evaluation of finished parts. Appreciation and criticism.	Presentation	-	-	1

Bibliography

1. Lecture Notes
2. Davarpanah, Szmukler-Moncler. Immediate loading of dental implants, Quintessence International 2008
3. Khoury, Antoun, Missika, Bone augmentation in oral implantology, Quintessence Publishing, 2007
4. Misch CE, Contemporary implant dentistry, Elsevier Mosby 2005
5. Misch CE, Dental Implant Prosthetics, Elsevier Mosby, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and up-to-date to the demands of the practical activity, the correct application of the notions of dental prosthetics, periodontology, implantology, and those of general pathology, pharmacology, physiopathology and psychology being essential in restoring the functionality of the dentomaxillary apparatus, within the framework of prosthetic implant therapies.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topic.	TBL (Average)	20
- practical activities	Knowledge of the theoretical and practical aspects of the subject of practical works.	CBL (Average)	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topic.	Multiple Choice Examination	40
- practical final exam	Knowledge of the theoretical and practical aspects of the subject of practical works	Interpretation of paraclinical examinations in the context of a given clinical situation.	20
Minimal performance standards: Obtaining the minimum grade of 5 (five) for each component of the evaluation: Course: - to know the basic concepts related to prosthetic implant therapy, - to participate in the debate groups in the TBL system, on the mentioned topics Practical work*:			

- to carry out at least one documented case presentation CBL 1, -to interpret a CT/CBCT CBL 2 in order to formulate the diagnosis and the treatment plan. *meeting the minimum practical performance criteria allows the student to take the theoretical exam

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	Miercuri 11-12

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endodontics (2)
2.2 Course coordinator: Șef I dr Kovács-Ivacson Andrea-Csinszka
2.3 Practical activities coordinator(s): Șef lucr. dr. kovacs-Ivacson A-Csinszka
2.4 Year of study: V 2.5 Semester: 2 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 20	3.2 lecture: 4	3.3 practical activities: 16
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 15		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 5		
- examinations: 4		
- other activities: 2		
3.8 Total hours of individual study: 46		
3.9 Total hours: 186		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: videoprojector, laptop
5.2 for practical activities: dental units, slow and high speed pieces, consultation kit, hand instruments, dental materials

6. Specific competencies acquired

6.1 professional competencies: Acquiring knowledge related to etiology, diagnosis and treatment possibilities in acute and chronic periapical lesions. Knowledge of the materials used in the disinfection of the root canal and of the complementary methods of obtaining by physical means the sterilization of the endodontic space. Emphasis is placed on radiological methods of diagnosis starting from classic to modern. The importance of outbreak disease and the correlation of the state of oral and dental health with the general state of health of the body.
6.2 transversal competencies: Due to the fact that contemporary medicine ensures the extension of life expectancy in patients with systemic

diseases, transplants, prostheses of various types, complex teams are organized with doctors of other specialties to establish the indications for endodontic treatment in the case of root infections.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning the diagnostic methodology and treatment techniques in the different forms of inflammatory pulpal diseases

7.2 Specific objectives:

The prophylactic side of the treatment methods applicable in complicated caries is emphasized, based on biological principles, with concrete possibilities for the prophylaxis of outbreak disease and edentation.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Pulp necrosis	Oral presentation	-	-	2
2	Pulp gangrene	Oral presentation	-	-	2
3	Acute apical periodontitis	Oral presentation	-	-	2
4	Chronic apical periodontitis	Oral presentation	-	-	2
5	Root canal preparation	Oral presentation	-	-	2
6	Sterilization of root canal system	Oral presentation	-	-	2
7	Calcium-hydroxide as an intracanal medicine	Oral presentation	-	-	2
8	Treatment of acute apical periodontitis	Oral presentation	-	-	2
9	Treatment of chronic apical periodontitis	Oral presentation	-	-	2
10	Root canal obturation	Oral presentation	-	-	2
11	Gutta-percha injection methods	Oral presentation	-	-	2
12	Radicular resorption	Oral presentation	-	-	2
13	Focal infections	Oral presentation	-	-	2
14	Accidents and complications during root canal treatment	Oral presentation	-	-	2
Bibliography					
Castelucci A.: Endodontics, vol.II, Ed. Tridente, 2005					

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Diagnosis and treatment in pulp necrosis	Clinical activity	-	-	8
2	Diagnosis and treatment in pulp gangrena	Clinical activity	-	-	8
3	Diagnosis and treatment in acute apical periodontitis	Clinical activity	-	-	8
4	Interpretation of retroalveolar and panoramic dental radiographs	Clinical activity	-	-	8
5	Diagnosis and treatment in chronic apical periodontitis	Clinical activity	-	-	8
6	Bacteriological examination in the therapy of endodontic infections	Clinical activity	-	-	8
7	Root canal preparation	Clinical activity	-	-	8
8	Determination of the length of root canals	Clinical activity	-	-	8
9	Practical application	Clinical activity	-	-	8
10	Practical application	Clinical activity	-	-	8
11	Practical application	Clinical activity	-	-	8
12	Practical application	Clinical activity	-	-	8
13	Antibiotherapy	Clinical activity	-	-	8

14	Resolving incidents and accidents during endodontic treatment	Clinical activity	-	-	8

Bibliography
Castelucci A.: Endodontics, vol.II, Ed. Tridente, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

There is a very large number of patients with chronic periapical lesions, and in the absence of treatment they would be condemned to extended edentulousness. Through the acquired knowledge, future doctors will be able to ensure the correct treatment of these injuries, and when necessary, in collaboration with the oro-maxillo-facial surgeon, they will ensure the maintenance of as many teeth as possible on the arch. Chronic apical periodontitis are considered aggravating factors of systemic diseases and their elimination has beneficial effects on the patient's health.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	CBL	30
Final evaluation			
- theoretical final exam	-	Test	50
- practical final exam	-	Oral	20
Minimal performance standards: In order to pass the exam both practical activity and theoretical exam grades should be above 5,00			

11. Must seen clinical situation list

Gangrenae
Acute apical periodontitis
Chronic apical periodontitis

12. Clinical / practical abilities

Treatment of simple or complicated gangrene (1);
Pulpectomies (1 mono- and 1 pluriradicular teeth).

13. Appointment timetable (for students)

Şef I dr Kovács-Ivacson Andrea-Csinszka	30 minutes after each lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Removable prosthodontics			
2.2 Course coordinator: Șef I dr Hănțoiu Liana-Georgiana			
2.3 Practical activities coordinator(s): Șef L dr Hănțoiu Liana, Șef L Dr Dobreci Claudia, Asist dr Berneanu Florentin, Asist dr Muică Adrian			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 13/16	3.2 lecture: 3	3.3 practical activities: 10/6
3.4 Total hours in curriculum: 164	3.5 lectures: 42	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 15		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 3		
- examinations: 3		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Prior theoretical preparation of the clinical stage to be carried out

6. Specific competencies acquired

6.1 professional competencies:
The student should be able to restore the bimaxillary total edentation and some unimaxillary edentations by means of classical prostheses in a form, function and aesthetics acceptable to patients of all ages. He must have the necessary knowledge and experience regarding the design and realization of the prosthetic and prosthetic preparation stages of the total edentationl prosthetic field, as well as elements related to the procedures of the dental technician laboratory

performed in the process of obtaining total prosthetics.

To possess the knowledge necessary for the clinical and paraclinical examination of total edentation.

The student should be familiar with the potential and limitations of the various clinical and technological dental procedures involved in the prosthetic restorations of the total edentation and be able to explain to the patient the indications and contraindications of the various methods of prosthetic solving of the total edentation (including overimplantation).

6.2 transversal competencies:

The student must be competent to ensure safety at work. He must have knowledge of understanding the importance of her own health and of the impact she may have in pursuing her profession. It must have the power to impose the principles of health and safety at work on other colleagues.

Be competent in recognizing one's own limits and in acknowledging the value of continuous study, self-improvement, and critical thinking in maintaining a high degree of professional competence.

Have the knowledge and understanding necessary for the ethical and moral responsibilities involved in providing dental services to the patient as an individual and to the population level.

Establish a physician-patient relationship that allows him / her to carry out his / her activity at the internship.

Be competent to protect the confidential aspect of patient data.

Be competent to team up with colleagues, teachers and dental technicians.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The discipline addresses the problem of prosthetic treatment of total edentation by means of classical total mobile prostheses and with implant support (over-denture).

7.2 Specific objectives:

Student acquiring elements related to clinical and therapeutic aspects of prosthetic treatment of total edentation by mobile prostheses.

Knowledge of the epidemiology and etiology elements of the total edentation, its clinical forms, specific symptoms and complications. Student acquiring the morphology and physiology elements of the total edentulous prosthetic field and the biodynamic elements of the total prostheses, correlated with the diagnostic and therapeutic peculiarities. Transmitting the knowledge necessary for the sequential sequence of the clinical technical and technological stages imposed by the classical prosthesis and the modern prosthetic treatment of the total edentation.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Total Edentation - Concept, Etiology, Symptomatology, Evolution, Complications. Morphological and functional changes of the orofacial system in the total edentation	Oral and multimedia presentation	-	-	3
2	Morphophysiology of the edentulous maxillary and mandibular fields	Oral and multimedia presentation	-	-	3

3	Biomechanics of total prostheses. Principles of Clinical Examination of Total Edentated Patient	Oral and multimedia presentation	-	-	3
4	Impression of the total edentated prosthetic field - general principles, preliminary impression	Oral and multimedia presentation	-	-	3
5	Final impression of the total edentated field: principles, objectives, method and techniques of final impression	Oral and multimedia presentation	-	-	3
6	Determination and recording of intermaxillary relationships in the treatment of total edentation	Oral and multimedia presentation	Test	-	3
7	Selecting and arranging prosthetic teeth. Occlusion for the edentulous patient	Oral and multimedia presentation	-	-	3
8	Clinical try-in appointment	Oral and multimedia presentation	-	-	3
9	Applying total dentures in the oral cavity and adaptation of the patient with dentures	Oral and multimedia presentation	-	-	3
10	Relining and rebasing of complete dentures. Total prosthesis repairs	Oral and multimedia presentation	-	-	3
11	Prosthetic stomatopathies	Oral and multimedia presentation	-	-	3
12	Combination syndrome and implantoprosthetic treatment of total edentation	Oral and multimedia presentation	-	-	3
13	Immediate dentures	Oral and multimedia presentation	-	-	3
14	Unconventional clinical-technical procedures for total prosthesis. Overdenture on implants. Prosthetic rehabilitation of maxillo-facial defects of total edentated patient.	Oral and multimedia presentation	-	-	3

Bibliography

ZARB G., HOBKIRK JA, ECKERT SE, JACOB RF. Prosthodontic treatment for edentulous patients. Complete dentures and implant-supported prostheses, 13th ed, Elsevier 2012, Biblioteca UMFST- IV 2937

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee	-	-	8

	participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	leader in the topic of the total edentation.			
2	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
3	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
4	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
5	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination	-	-	8

	prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.			
6	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
7	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
8	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8

	based on scientific literature. Patient examination and clinical case presentation				
9	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prothesys. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
10	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prothesys. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
11	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prothesys. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
12	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the	-	-	8

	of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.			
13	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
14	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
Bibliography Zarb et.al. Prosthodontic treatment for edentulous patients. Elsevier-Mosby, 2013					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and accordingly with the requirements of the mobile prosthodontic treatment in the dental office

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course	Test	20

- practical activities	Semestrial activity (attendance, grades during the semester, fulfillment of practical activity scale)	CBL	10
Final evaluation			
- theoretical final exam	Acquiring theoretical knowledge according to the bibliography and the contents of the university lectures	MCQ Test	40
- practical final exam	Assessment of the student's applied knowledge Paraclinical analysis of study and diagnostic models.	Performing a clinical phase of treatment, or a diagnostic procedure	30
Minimal performance standards: A case presentation, diagnosis and therapeutic plan 2. Treatment of an edentation by total prosthesis 3. Adaptation of the individual tray and acceptable final impression of the edentulous field 4. Paraclinical analysis of study and diagnostic models. 5. Presentation of the report based on the literature 6. Attendance to activities (accumulating a number of unmotivated absences of more than 7 does not allow the student to enter the final exam)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Hănţoiu Liana-Georgiana	30 min după curs

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral pathology
2.2 Course coordinator: Șef I dr Monea Adriana-Maria
2.3 Practical activities coordinator(s):
2.4 Year of study: VI 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 2		
- examinations: 4		
- other activities: 2		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Monea Adriana-Maria	

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental office management			
2.2 Course coordinator: Conf dr Gasparik Andrea-Ildikó			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 6		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Students will be able to understand - how to apply the principles and functions of management at a dental practice level. - to assess and improve/efficientize the functioning of a dental office. To be aware of the role and place of the dental office as a provider of medical services within the public health system. To apply the decision theory at the level of the dental office or any provider of dental medical services.
6.2 transversal competencies: Acquiring knowledge of Dental office Management discipline, students will be able

- to coordinate the activity of a dental office
- to efficiently collaborate with other suppliers or partners (IH)
- to ensure a correct coordination of the activity of a DO
- to establish collaborations and contracts with other suppliers or Insurance Company/Agencies.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

To have a strategic view and be familiar and able to carry out a strategic planning algorithm.

Being aware of how management principles can be applied at the level of a DM office

7.2 Specific objectives:

- To be familiar with the basic concepts, theories and functions of management
- To be able to apply the stages of decision theory
- To be able to perform a SWOT analysis
- To set SMART goals
- To be familiar with the way a health system is organized, financed and how it functions

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Health management. Key concepts. Theories and functions	Presentation, discussions	-	tiredness	2
2	Management functions applied in DM	Presentation, discussions	-	sleep disturbance	2
3	Strategical planning. SWOT analysis. Setting objectives	TBL	-	tiredness	2
4	Managerial authority and responsibility. Decision analysis in the dental office	Presentation, discussions	-	sleep disturbance	2
5	Human resource management in dental practice	Presentation, discussions	-	tiredness	2
6	Understanding of health care systems. Basic concepts. Key components of a well functioning HS	Presentation, discussions	-	depression	2
7	Test	multiply choice questions	-	tiredness	2

Bibliography

1. Al Gasparik. Electronic course material

2. Lamkin. C. Dental Office Management Cengage Learning 2nd Edition 2014

3. O Hokwerda, J. A. J. Wouters et al Ergonomic requirements for dental equipment. Guidelines and recommendations for designing, constructing and selecting dental equipment.

3. Ira B. Lamster, Kayleigh Eaves. 2011 A Model for Dental Practice in the 21st Century. Am J Public Health.

4. <https://www.slideshare.net/aashnadhingra/dental-practice-management>

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

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10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	1. ability to effectively use and adapt the acquired knowledge in new / complex contexts 2. project based assessment	discussions, project based assessment	30

- practical activities	-	-	0
Final evaluation			
- theoretical final exam	ability of explaine and apply concepts, principles and processes	multiply choice questions testing	70
- practical final exam	n	n	0
Minimal performance standards: students will have to reach at least 50% (5/10)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Gasparik Andrea-Ildikó	Dupa curs, 20-30 minute

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Professional organisation and legislation			
2.2 Course coordinator: Conf dr Gasparik Andrea-Ildikó			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 16		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 4		
- examinations: 3		
- other activities: 5		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
in accordance with the UMFST and PHHM discipl. regulations
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
To be able to understand the concept and legislative aspects of normative acts at EU level
To be able to get involved in making decisions on the legislative framework;
To be familiar with the patient's rights;
To know the legislation specific to the profession of dentist;
6.2 transversal competencies:
To contribute to the professional progress and development;
To get involved in multidisciplinary work;

To participate in solving health problems, as part of the health system, in its area of competence.
Involvement in the development of legislation in the field.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
The aim of the discipline is to give students the basics of legislative and organizational issues of the health system in the field of dentistry.

7.2 Specific objectives:
To be able to analyze a legislative act;
To identify the place occupied by a dentist within the healthcare providers system;
To be familiar and apply the rights of patients;
To know all the aspects related to the practice of dentistry;
To be familiar with the administrative stages of opening a dental practice.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Legislative acts EU	presentation (multimedia), discussion	-	-	1
2	Legislative acts EU	presentation (multimedia), discussion	-	-	1
3	Practicing of dentistry. Professional organizations (dental associations)	presentation (multimedia), discussion	-	-	1
4	Practicing of dentistry. Professional organizations (dental associations)	presentation (multimedia), discussion	-	-	1
5	Establishing a dental practice	presentation (multimedia), discussion	-	HIV	1
6	Establishing a dental practice	presentation (multimedia), discussion	-	tiredness	1
7	Quality and Patient Safety	presentation (multimedia), discussion	-	HIV	1
8	Quality and Patient Safety	presentation (multimedia), discussion	-	hypertension	1
9	Organization of the health system - providers of dental health services	presentation (multimedia), discussion	-	septicaemia	1
10	Organization of the health system - providers of dental health services	presentation (multimedia), discussion	-	-	1
11	Promoting dental health	discussions, presentation	-	-	1
12	Promoting dental health	presentation (multimedia), discussion	-	pain management	1
13	Test	multiply choice questions	-	-	1
14	Test	multiply choice questions	-	-	1

Bibliography

Electronic lecture notes (Gasparik A.I.)

EU <https://www.cedentists.eu/pdf>

Standards and their guidance, General Dental Council, UK <https://standards.gdc-uk.org/>

ADA (American Dental Association)

<https://www.ada.org/en/about-the-ada/principles-of-ethics-code-of-professional-conduct/preamble>

STEP-UP to USMLE STEP 2 CK, 5th Edition

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Through the knowledge gained, students will be able to adapt to the labor market requirements in the field and to meet the expectations of the community. Beyond the clinical part, a dentist should be familiar, from a legislative point of view, with their rights and obligations, the level of responsibilities. They will be able to deal with possible unexpected situations arising during their professional activity.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	ability to effectively use and adapt the acquired knowledge in a new / complex contexts	discussions, project based assessment	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	the ability to explain and apply concepts, principles and processes	exam. Multiple choice questions test	70
- practical final exam	-	-	0
Minimal performance standards: test performance at least 50%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Gasparik Andrea-Ildikó	Dupa curs, 20-30 minute

Head of departament

Course coordinator

Practical activities coordinator(s)



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Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical and surgical emergencies in dental medicine			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I dr Iacob Alina, Șef I dr Petrovan Cecilia, Conf dr Ormenișan Alina, Șef I dr Bogozî Balint, Șef I dr Szava Daniel, Șef I dr Coșarcă Adina, Asist univ Golu Vlad, Asist univ Berecki-Temistocle Despina, Asist univ Grigore Vlad, Asist univ Veress Szidonia			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 15		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 6		
- examinations: 8		
- other activities: 2		
3.8 Total hours of individual study: 56		
3.9 Total hours: 126		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Internet access
5.2 for practical activities: Internet access emergency kit

6. Specific competencies acquired

6.1 professional competencies: The students must be able to obtain a correct, complete medical history of patients with different general disorders, to recognize situations that could become possible emergency situations that may occur during dental treatments, to prevent and guide the patient for further specialized health care.
6.2 transversal competencies: Effective collaboration with other specialties for a fair, efficient

interdisciplinary treatment.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Prevention and management of various emergency situations dental office.

7.2 Specific objectives:

Preparing students to approach and treat patients with different systemic diseases from dental medicine point of view.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification of dental procedures according to general conditions	Oral and multimedia presentation	discussion	oral disorders	2
2	The importance of medical history and general clinical examination for prevention of medical emergency situations	Oral and multimedia presentation	discussion	pre-operative care	2
3	Risk factors for systemic side effects of loco-regional anesthesia	Oral and multimedia presentation	discussion	pre-operative care	2
4	Management of the patient with cardiovascular diseases (part I)	Oral and multimedia presentation	discussion	ischemic heart disease	2
5	Management of the patient with cardiovascular diseases (part II)	Oral and multimedia presentation	discussion	coagulation disease	2
6	Management of the patient with cardiovascular diseases (part III)	Oral and multimedia presentation	discussion	endocarditis	2
7	Management of the patient with endocrine disorders	Oral and multimedia presentation	discussion	diabetes mellitus	2
8	Management of the patient with liver disorders	Oral and multimedia presentation	discussion	chronic liver disease	2
9	Management of the patient with allergic or neuropsychiatric disorders	Oral and multimedia presentation	discussion	allergic disorders	2
10	Management of the patient with infectious disorders	Oral and multimedia presentation	discussion	HIV	2
11	Management of the patient with kidney or lung disorders	Oral and multimedia presentation	discussion	asthma	2
12	Treatment of medical emergencies in the dental office	Oral and multimedia presentation	discussion	shock	2
13	Emergency kit	Oral and multimedia presentation	discussion	drug reactions	2
14	Management of surgical emergencies in dental office	Oral and multimedia presentation	discussion	oral disorders	2

Bibliography

1. Iacob A., Ormenișan A.: Prevenirea și tratamentul urgențelor medicale în cabinetul de medicină dentară, curs pentru studenții anului VI MD, University Press, Tg-Mureș, 2015
2. Naftali Gh., Puskas A.: Prevenirea urgențelor medicale în cabinetele stomatologice. Curs pentru studenți, Litografia UMF Tg-Mures, 2004
3. Voroneanu M., Bucur A., Iordache N., Balan H.: Urgente medico-chirurgicale în cabinetul de medicina dentara. Ghid practic de diagnostic și tratament prespitalicesc, Ed. Medicala. Bucuresti 2014
4. Scully C., Kalantzis A.: Oxford Handbook of Dental Patient Care, Second edition, Oxford University Press, 2005

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Blood pressure and pulse measurement	examples, discussions	exercises	hypertension	3
2	Exercise of different antibiotic-prophylaxis regimens (recipe)	Case presentation, examples, discussions	exercises	endocarditis	3
3	Determination of blood glucose	Case presentation, examples	discussions	diabetes mellitus	3
4	Intradermal test and interpretation for different specific allergens	Case presentation, examples	discussions	allergic disorders	3
5	Interpretation of laboratory test results	Case presentation, examples	CBL discussions	pre-operative care	3
6	Performing subcutaneous injection	Case presentation, examples	discussions	diabetes mellitus	3
7	Performing intramuscular injection	Case presentation, examples	discussions	epilepsy	3
8	Performing intravenous injection	Case presentation, examples	discussions	cardiorespiratory arrest	3
9	Management of patients with oral anticoagulant therapy	Case presentation, examples	discussions	coagulation disease	3
10	Relevant history of patients with general disorders	Case presentation, examples	discussions	pre-operative care	3
11	Completing medical questionnaires	Case presentation, examples	discussions	pre-operative care	3
12	How to use the content of the emergency kit	Case presentation, examples	CBL discussions	drug reactions	3
13	Use of various drugs from emergency kit	Case presentation, examples	discussions	shock	3
14	Revision, different situations scenario debate	Case presentation, examples	discussions	pre-operative care	3

Bibliography

1. Iacob A., Ormenișan A.: Prevenirea și tratamentul urgențelor medicale în cabinetul de medicină dentară, curs pentru studenții anului VI MD, University Press, Tg-Mureș, 2015
2. Scully C., Kalantzis A.: Oxford Handbook of Dental Patient Care, Second edition, Oxford University Press, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Each dentist must be able to recognize, prevent and provide basic management for common emergency situations in dental office.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	case scenario study	CBL	30
Final evaluation			

- theoretical final exam	According to the specific features of the discipline	Written evaluation - test - multiple choice question	40
- practical final exam	According to the specific features of the discipline	Written evaluation, Multiple choice questions test on a clinical case scenario	30
Minimal performance standards: minimum grade of 5.0 obtained at the theoretical examination minimum grade of 5.0 obtained at the practical examination The presence - mandatory for practical sessions; 20% unmotivated absences are allowed (6 hours lp = 2 LPs); > 20% unmotivated and unrecovered absences = exam failed			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Students should be able to take a good medical history of the patient, to prevent possible medical emergencies. If they occur, the students must be able to start basic treatment in each situation, call ambulance and send patient to Emergency Unit.

13. Appointment timetable (for students)

Şef I dr Iacob Alina	Tuesday 14.00-15.00

Head of departament

Course coordinator

Practical activities coordinator(s)



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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Removable prosthodontics
2.2 Course coordinator: Șef I dr Dobreci Liana-Claudia
2.3 Practical activities coordinator(s):
2.4 Year of study: VI 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12/8	3.2 lecture: 2	3.3 practical activities: 10/6
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 3		
- examinations: 3		
- other activities: 0		
3.8 Total hours of individual study: 46		
3.9 Total hours: 186		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Dobreci Liana-Claudia	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontology (2)
2.2 Course coordinator: Șef I dr Benedek Csilla
2.3 Practical activities coordinator(s):
2.4 Year of study: VI 2.5 Semester: 1 2.6 Type of evaluation: E 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4/12	3.2 lecture: 0/4	3.3 practical activities: 4/8
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 7		
- examinations: 7		
- other activities: 7		
3.8 Total hours of individual study: 63		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Must seen clinical situation list

- MUST SEEN CLINICAL SITUATIONS LIST: 1. Chronic gingivitis (simple, not complicated) – plaque induced 2. Hyperplasic gingivitis (plaque induced) 3. Gingivitis related with physiological conditions 4. Gingivitis related with systemic diseases (diabetes, haematological disorders) 5. Medicine induced hyperplasic gingivitis 6. Acute necrotizing ulcerative gingivitis and gingivostomatitis 7. Primary herpetic gingivitis and gingivostomatitis 8. Recurrent aphthous gingivitis and gingivostomatitis 9. Gingivitis and gingivostomatitis of fungal origin 10. Chronic periodontitis 11. Localized aggressive periodontitis 12. Generalized aggressive periodontitis 13. Acute necrotizing ulcerative periodontitis 14. Periodontal abscess

12. Clinical / practical abilities

To recognize the previously listed diseases

13. Appointment timetable (for students)

Şef I dr Benedek Csilla	

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral and maxillo-facial surgery (2)			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Șef.Lucr.Dr. Cosarca Adina, Șef.Lucr.Dr.Petrovan Cecilia, Șef.Lucr.Dr.Iacob Alina, Asist Univ Dr Bereczki Temistocle Despina, Drd. Golu Vlad, Asist Univ Drd. Vlad Grigore, Asist Univ. Drd. Veres Szidonia			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 7		
- examinations: 12		
- other activities: 15		
3.8 Total hours of individual study: 98		
3.9 Total hours: 154		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Description of concepts, theories and fundamental notions regarding the appearance of tumors, the signs and symptoms characteristic of each disease, important for the orientation of clinical diagnosis. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms in order to develop a presumptive diagnosis. The use of therapeutic resources to formulate the treatment plan as well as the correct interpretation of clinical and paraclinical data. The application of the acquired clinical techniques and knowledge to be integrated with the paraclinical data with the aim of establishing the positive,

differential diagnosis, as well as establishing the prognosis. Realization of a treatment plan in accordance with the stage of the disease and its individualized adaptation to the particularities of the patient. Finally, the correct performance of the complete and complex clinical examination, which allows the recognition of benign and malignant oral and maxillofacial lesions as well as the therapeutic attitude in these cases, in order to correctly guide patients in surgical services where they are treated.

6.2 transversal competencies:

Identification of the objectives to be achieved, the available resources, the conditions for their completion, work stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying communication techniques and effective work within the team and in relation to the patient. Effective use of communication resources and assisted professional training. Knowing and respecting the principles of safety at work, protection of work and the individual.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

7.1 General objective The correct attitude of the dentist towards premalignant lesions, respectively towards benign and malignant tumoral lesions in the oro-maxillo-facial sphere, salivary gland pathology, TMJ pathology, complex dento-maxillary anomalies and congenital labio-maxillo-palatine clefts, that appear on the face and oral cavity.

7.2 Specific objectives:

Carrying out the anamnesis, the complete and correct clinical examination as well as some basic diagnostic procedures, requesting the appropriate complementary examinations, formulating a positive and differential diagnosis. Realization of an individualized therapeutic plan and the performance of basic therapeutic procedures, including those aimed at qualified first aid. Familiarization of students with some precancerous conditions and benign, malignant conditions encountered in the oro-maxillo-facial sphere that they may encounter in dental practice. The therapeutic attitude in the dental office towards the oncological patient and the drug treatments that could complicate the dental treatments.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Cysts and soft tissue fistulae	Oral presentation + multimedia, discussions	-	-	2
2	Benigne tumors of the face and mouth	Oral presentation + multimedia, discussions	-	-	2
3	Nonodontogenic benign tumors of the jaws	Oral presentation + multimedia, discussions	-	-	2
4	Benign Maxillary odontogenic tumors	Oral presentation + multimedia, discussions	-	-	2
5	Precancerous lesions in oro-maxillo-facial territory	Oral presentation + multimedia, discussions	-	-	2
6	Etio-pathogenesis of cancers in the oro-maxillo-facial area Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2
7	Paraclinic examination for the malignant tumors of the maxillo-facial area	Oral presentation + multimedia, discussions	-	-	2
8	Malignant tumors of the soft tissue located in the maxillo facial area-1	Oral presentation + multimedia, discussions	-	-	2

9	Malignant tumors of the soft tissue located in the maxillo facial area-2	Oral presentation + multimedia, discussions	-	-	2
10	Maxillary malignant tumors	Oral presentation + multimedia, discussions	-	-	2
11	Salivary glands pathology	Oral presentation + multimedia, discussions	-	-	2
12	TMJ Pathology	Oral presentation + multimedia, discussions	-	-	2
13	Congenital labio-maxilo-palatine cleft - Etiopathogenesis, clinical aspects and surgical treatment in multidisciplinary therapy	Oral presentation + multimedia, discussions	-	-	2
14	Complex congenital malformations. Surgical orthognatic treatment	Oral presentation + multimedia, discussions	-	-	2
Bibliography 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București 2.Textbook of Oral and Maxillofacial Surgery, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD. 3.Principles of oral and maxillo facial surgery, Six edition, UJ MOORE					

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Soft tissue cyst and tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
2	Benigne tumors of the face and mouth	Oral presentation, discussion, power point presentation, case presentation	-	-	2
3	Benigne tumors of the jaws nonodontogenic	Oral presentation, discussion, power point presentation, case presentation	-	-	2
4	Maxillary odontogenic tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
5	Premalignant lessions	Oral presentation, discussion, power point presentation, case presentation	-	-	2
6	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	CBL 1	-	2
7	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
8	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
9	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
10	Salivary glands pathology	Oral presentation, discussion, power point presentation, case presentation	-	-	2
11	TMJ pathology	Oral presentation, discussion, power point presentation, case presentation	*	-	2
12	Clefts	Oral presentation, discussion, power point presentation, case presentation	CBL2	-	2
13	Dentomaxillary anomalies	Oral presentation, discussion, power point presentation, case presentation	-	-	2
14	Revision	Oral presentation, discussion, power point presentation, case presentation	-	-	2
Bibliography 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București 2.Textbook of Oral and Maxillofacial Surgery, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD. 3.Principles of oral and maxillo facial surgery, Six edition,					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-At the end of the sixth year, students must recognize premalignant lesions, namely benign and malignant oral and maxillofacial tumors, as well as the therapeutic attitude in these cases, in order to correctly guide patients in surgical services where they are treated. To make a preliminary diagnosis in patients with pathology of the salivary glands, the temporomandibular joint, with dentomaxillary anomalies and congenital labio-maxillo-palatine clefts and refer them to the Oro-Maxillo-Facial Surgery service.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-According to the department of Oral and Maxillofacial Surgery	-	0
- practical activities	According to the department of Oral and Maxillofacial Surgery	CBL	30
Final evaluation			
- theoretical final exam	Theoretical final exam According to the department of Oral and Maxillofacial Surgery Written evaluation / test 40%	Written evaluation / test	40
- practical final exam	According to the department of Oral and Maxillofacial Surgery - Verification	Oral /written revision on pathology studied in the course of the semester	30
Minimal performance standards: Carrying out the anamnesis, the complete and correct clinical examination - the recognition and careful examination of areas of high oncological risk, the establishment of basic diagnoses, the request for appropriate complementary examinations, the formulation of a positive and differential diagnosis. Creating an individualized therapeutic plan and performing basic therapeutic procedures, including those aimed at qualified first aid. Attendance to lectures and practical activities of the discipline is mandatory. Unexcused absences from classes will not give the student the right to participate in the semester examination session. - 20% of motivated absences can be recuperated according to the decision of the Course/Practical activities lecturer - The grade for written test – minimum 5; less than 5 = failed exam; - The grade for semestrial activities – minimum 5; less than 5 = failed exam; - Final grade – minimum 5; less than 5 = failed exam.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	30 minutes after course

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Orthodontics (2)			
2.2 Course coordinator: Conf dr Pop Silvia-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 16		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 4		
- examinations: 6		
- other activities: 2		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: orthodontic diagnosis and therapeutical goals
4.2 competency: Basic knowledge of static and dynamic occlusion, cardiology, and dental morphology

5. Conditions

5.1 for lectures: Video projector, PC, flipchart
5.2 for practical activities: Treatment halls, dental units, negatoscope

6. Specific competencies acquired

6.1 professional competencies: Elaboration of a complex and individualized treatment plan by clinical examination, complementary examinations (model analysis, radiography examination (OPG and telerradiography), photostatic exam, static and dynamic occlusion examination, anthropometric measurements) Orthodontic appliances: classification, components, biomechanical principles, indications and contraindications
6.2 transversal competencies: Orthodontic appliance use in different malocclusions. Advantages and disadvantages of a specific appliance. Biomechanical principles of appliance activation. Early identification of serious skeletal abnormalities, with harmony of facial harmony and orientation towards

specialist surgery.

Effective use of information sources, communication and training resources both in Romanian, Hungarian and in an international language, in order to elaborate and present a specialized work;

Identifying objectives, work phases, available resources, risk factors in targeted work

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Establish complex orthodontic diagnosis and identification of all treatment goals. Indication of a specific orthodontic appliance according to the identified malocclusion.

7.2 Specific objectives:

Orthodontic appliance use in different malocclusions. Advantages and disadvantages of a specific appliance.

Biomechanical principles of appliance activation.

Clinical and therapeutic particularities of orthodontic malocclusions.

Knowing the optimal moment to establish an orthodontic treatment;

Designing a complex orthodontic treatment plan depending on the child's age and general health, with an emphasis on the nature of the anomaly.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification of orthodontic appliances	Oral, multimedia presentation	-	-	2
2	Removable orthodontic appliances. The acrylic basis, clasps, acrylic splints	Oral, multimedia presentation	-	-	2
3	Removable orthodontic appliances. Active elements: springs, orthodontic screw	Oral, multimedia presentation	-	-	2
4	Removable orthodontic appliances: functional elements. Types of appliances. Appliance wearing.	TBL	-	-	2
5	Classic functional orthodontic appliances. The principle of the inclined plane. Activator - monobloc. Indications and contraindications	Oral, multimedia presentation	-	-	2
6	Modern functional orthodontic appliances. The Frankel appliance. Balters bionator	Oral, multimedia presentation	-	-	2
7	Passive orthodontic appliances. Removable and fixed space maintainers.	TBL	-	-	2
8	Fixed orthodontic appliances. Advantages, actions, and indications. Orthodontic bands, tubes, ligatures, and brackets.	Oral, multimedia presentation	-	-	2
9	Fixed orthodontic appliances. Wires: selection and action. Elastics: types of elastics	Oral, multimedia presentation	-	-	2
10	Fixed orthodontic appliances. Anchorage control: transpalatal arch - Goshgarian, lingual arch, Quad helix, Nance appliance	Oral, multimedia presentation	-	-	2
11	Intra-extraoral orthodontic devices. Headgear, Delaire mask	Oral, multimedia presentation	-	-	2
12	Rapid palatal expansion. Types of devices and actions	Oral, multimedia presentation	-	-	2
13	Relapse after orthodontic treatment. Cause and prevention. Retainers	Oral, multimedia presentation	-	-	2
14	Orthodontic management of patients with LMP clefts. Impression taking and usable appliances	Oral, multimedia presentation	-	-	2

Bibliography

Bibliography

1. Mártha Krisztina, Cristina Bică: OrthoAtlas, Ed. University Press Tg. Mureș, 2015, ISBN: 978-973-169-329-3

2. Păcurar Mariana : Aparatura ortodontica functionala, de la clasic la modern, Editura University Press, Tg.Mures, 2007. 2. Păcurar Mariana ,Irina Zetu: Introducere în tehnica arcului drept, Vol.2, Editura Lyra, Tg. Mureș, 2003.
3. Păcurar Mariana, Bud Eugen, Eșian Daniela, Chibelea Manuela: Ancorajul în ortodonție. Ed.University Press, UMF Tg.Mureș, 2015

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Monomaxilar and bimaxillary static examination on casts. Resume	Practical demonstration, individual work	-	-	4
2	Complementary orthodontic examination. Resume.	Practical demonstration, individual work	-	-	4
3	Design of removable orthodontic appliances	Practical demonstration, individual work	-	-	4
4	Section possibilities of the basis of removable orthodontic appliances	Case-based learning	-	-	4
5	Working bite determination: indirect method. Demonstration	Practical demonstration, individual work	-	-	4
6	Clasps manufacturing on work casts. Practical demonstration.	Practical demonstration, individual work	-	-	4
7	Springs manufacturing on work casts. Practical demonstration	Practical demonstration, individual work	-	-	4
8	Activation of inclined planes on functional appliances. Demonstration	Practical demonstration, individual work	-	-	4
9	Functional components manufacturing on working casts.	Case-based learning	-	-	4
10	Orthodontic chart. Demonstration of direct bonding technique	Practical demonstration, individual work	-	-	4
11	Fixed appliance control. Demonstration	Practical demonstration, individual work	-	-	4
12	Anchorage improving devices: Quad helix, lip-bumper, Nance appliance	Practical demonstration, individual work	-	-	4
13	Interceptive orthodontics: trainers and labial plate.	Case-based learning	-	-	4
14	Case presentation	Practical demonstration, individual work	-	-	4

Bibliography

1. Martha Krisztina, Bică Cristina: Ortho-Atlas, Ed. University Press Tg.Mureș, 2015.
2. Păcurar Mariana, Bud Eugen, Eșian Daniela, Chibelea Manuela: Ancorajul în ortodonție. Ed. University Press, UMF Tg.Mureș, 2015
3. Pop Silvia Izabella, Bratu Dana Cristina, Păcurar Mariana: Noțiuni de biomecanică în tratamentul ortodontic fix, Editura University Press, Tg.Mures, 2015
4. Stanciu : Ortodonție și Ortopedie dento-facială, Ed. Medicală, București 2009.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Average of the two TBL sessions	15
- practical activities	CBL	Average of the 3 CBL modules	25
Final evaluation			
- theoretical final exam	Final test	Theoretical test	40
- practical final exam	Practical exam	Practical exam	20

Minimal performance standards:

Minimum bar for practical works during the semester, which condition the participation in the practical exam in the session:

Case presentation (complex orthodontic diagnosis) 2

Removable appliances (design of an orthodontic plate) 2

Making the orthodontic plate anchor elements - Stahl clasp (demonstration) 1

Making the active elements of the orthodontic plate - auxiliary springs (demonstration) 2

Functional devices. Corrected occlusion on model 2

Fixed orthodontic appliances: bonding (demonstration) 1

Fixed orthodontic appliances: adapting bands on study cast (demonstration) 2

Fixed orthodontic appliances: arc ligature on Typodont 1

Fixed orthodontic appliances: bending arches 2

Anchorage auxiliaries: adapting a lingual / transpalatal arch to the study model (demonstration) 1

Preparation of the orthodontic treatment sheet 1

Preparation of the Laboratory Sheet 1

Repairing a Plate in the Cabinet (Demonstration) 1

Preparing the License 1

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Minimum bar for practical works during the semester, which condition the participation in the practical exam in the session:

Case presentation (complex orthodontic diagnosis) 2

Removable appliances (design of an orthodontic plate) 2

Making the orthodontic plate anchor elements - Stahl clasp (demonstration) 1

Making the active elements of the orthodontic plate - auxiliary springs (demonstration) 2

Functional devices. Corrected occlusion on model 2

Fixed orthodontic appliances: bonding (demonstration) 1

Fixed orthodontic appliances: adapting bands on study cast (demonstration) 2

Fixed orthodontic appliances: arc ligature on Typodont 1

Fixed orthodontic appliances: bending arches 2

Anchorage auxiliaries: adapting a lingual / transpalatal arch to the study model (demonstration) 1

Preparation of the orthodontic treatment sheet 1

Preparation of the Laboratory Sheet 1

Repairing a Plate in the Cabinet (Demonstration) 1

Preparing the License 1

13. Appointment timetable (for students)

Conf dr Pop Silvia-Izabella

vineri 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



MINISTERUL EDUCAȚIEI
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FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dentofacial cosmetics
2.2 Course coordinator: Șef I dr Stoica Alexandra-Mihaela
2.3 Practical activities coordinator(s): Sef Lucr. Hantoiu Tudor, Sef Lucr Sita Dragos
2.4 Year of study: VI 2.5 Semester: 2 2.6 Type of evaluation: C 2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 21		
- supplemental documentation at the library, from specialized information portals and in the field: 19		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities: 4		
- examinations: 2		
- other activities: 1		
3.8 Total hours of individual study: 58		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Sala, videoproiector, laptop
5.2 for practical activities:
Clinica tratament cosmetica dentara, unituri dentare si consumabilele aferente

6. Specific competencies acquired

6.1 professional competencies:
Elaborarea planului de tratament respectând principiile odontoterapiei cosmetice, aplicate atât individual, la nivelul fiecărui dinte, cât și general, la nivelul arcadelor dentare. Cunoașterea modului de aplicare al caracteristicilor culorii, valabil atât pentru structurile dentare cât și pentru materialele compozite folosite în reastaurarea dentară directă. Dobândirea cunoștințelor necesare realizării albirii dinților vitali și a dinților tratați endodontic.
6.2 transversal competencies:
Utilizarea examinării fotografice și a metodelor moderne digitale de vizualizare a imaginii estetice finale post-tratament, pentru o abordare complexă a planurilor de tratament cosmetico-dentare.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Obiectivul general: Deși estetica dentară continuă să se dezvolte pe toate direcțiile medicinei dentare, în cadrul cursului am dorit să ne concentrăm asupra tratamentelor cosmetice odontale ale dinților vitali și a celor tratați endodontic
7.2 Specific objectives: Obiective specifice: Studentii își însușesc date privind conceptul de bază al esteticii dentare, elaborarea planului de tratament, abordarea și corectarea leziunilor dentare necarioase și carioase utilizând materiale compozite, dobândesc informații legate de posibilitățile de reconturare estetică a dinților frontali și legate de tehnici de albire dentară.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Conceptul de estetică dentară. Elaborarea planului de tratament.	Prezentare orală și multimedia.	-	-	2
2	Caracteristicile optice ale țesuturilor dentare dure.	Prezentare orală și multimedia.	-	-	2
3	Leziuni dentare necarioase.	Prezentare orală și multimedia.	-	-	2
4	Restaurări odontale directe cu materiale compozite.	Prezentare orală și multimedia.	-	-	2
5	Reconturarea estetică a dinților.	Prezentare orală și multimedia.	TBL	-	2
6	Principii de bază în tehnicile de albire dentară.	Prezentare orală și multimedia.	-	-	2
7	Aplicarea tehnicilor cosmetice în refacerea estetică a dinților tratați endodontic.	Prezentare orală și multimedia.	-	-	2

Bibliography

Bibliografie

1. Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg.Mureș, 2015
2. Goldstein R.: Esthetics in Dentistry. B.C.Decker Inc. Hamilton, London, 1998.
1. George Freedman: Contemporary esthetic dentistry. Elsevier.2010
3. N Wilson: Esthetic Dentistry.2015
4. D Marrisoni: Precision in dental esthetics.2007
5. Nairn H. F. Wilson: Essentials of Esthetic Dentistry Principles and Practice of Esthetic Dentistry.2015

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Examinarea pacientului. Stabilirea diagnosticului și realizarea planului de tratament.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
2	Examinarea țesuturilor dure dentare. Utilizarea magnificației pentru evaluarea smalțului și a dentinei.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
3	Efectuarea restaurărilor odontale directe la grupul dinților frontali.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
4	Efectuarea restaurărilor odontale directe la grupul dinților laterali	Prezentări multimedia, cazuri clinice, demonstrații practice.	CBL	-	4
5	Tehnici de albire a dinților vitali. Albirea internă a dinților devitali.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4

6	Reconturarea estetică a obturațiilor de compozit.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
7	Refacerea unghiurilor și a marginilor incizale cu ajutorul materialelor compozite	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4

Bibliography

Bibliografie

1. Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg.Mureș, 2015
2. Goldstein R.: Esthetics in Dentistry. B.C.Decker Inc. Hamilton, London, 1998.
3. N Wilson: Esthetic Dentistry.2015
4. D Marrisoni: Precision in dental esthetics.2007
5. Nairn H. F. Wilson: Essentials of Esthetic Dentistry Principles and Practice of Esthetic Dentistry.2015

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conținutul disciplinei este coroborat cu necesitatea angajatorilor din domeniile de sănătate, management sanitar, învățământ medical, firme de produse stomatologice, cercetare în medicină dentară

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	În funcție de specificul disciplinei.	TBL	15
- practical activities	În funcție de specificul disciplinei.	CBL	15
Final evaluation			
- theoretical final exam	În funcție de specificul disciplinei	Test grilă și redacțional	50
- practical final exam	În funcție de specificul disciplinei	Realizarea unei obturații frontale fizionomice - practic	20
Minimal performance standards: 5.00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Stoica Alexandra-Mihaela	Luni-Vineri 12:00-14:00

Head of departament

Course coordinator

Practical activities coordinator(s)



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„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral rehabilitation			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): Prof dr Suci Mircea, Conf dr Bechir Edwin Sever, Conf dr Biris Carmen Ioana, Sef Lurari dr Horga Claudiu, Asist Univ dr Lazar Ana Petra, Asist Univ dr Bardocz Veress Zsuzsanna			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week:	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 0		
- examinations: 6		
- other activities: 8		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Multimedia Equipment
5.2 for practical activities: Multimedia Equipment

6. Specific competencies acquired

6.1 professional competencies: Carrying out a complete and complex clinical examination of the patient. The ability to correlate the concepts of general medicine with those of dentistry and establish mutual interdependence. The ability to request and use critical paraclinical investigations in establishing the diagnosis. The ability to formulate a suite of correct diagnoses. Establishing an individualized treatment plan, formulated in a logical, coherent and effective sequence The ability to predict the prognosis and evolution of the disease.

The ability to offer the patient several treatment solutions in accordance with the various concepts of oral rehabilitation.

6.2 transversal competencies:

Cognitive skills:

Notions about the concepts that define complex oral rehabilitation.

Notions about signs, symptoms or diseases within general medical pathology reflected in dental medicine.

Notions about diseases of the dento-maxillary apparatus that influence the general state of health.

Notions related to paraclinical investigations useful in formulating effective diagnoses.

Notions regarding oral rehabilitation therapy.

Affective-value skills:

Relationship with the patient and the medical staff.

Communication with the patient.

Communication with the dental technician.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Students' acquisition of general notions about oral rehabilitation concepts.

7.2 Specific objectives:

To know and understand the principles that govern the concepts of oral rehabilitation.

To use the specialized terms.

To know basic medical notions from general pathology that influence oral health.

To know the medication that can affect the oral health status, the diagnosis or the treatment plan.

To know and explain the therapeutic principles/manipulations used in oral rehabilitation.

To know the stages of the complete and complex clinical examination of the patient.

To know the paraclinical investigations and their role in the documentation and formulation of the diagnosis and the treatment plan.

To know the types of diagnoses that are formulated after examining the patient.

To know the operations/procedures that must be applied for the oral rehabilitation of clinical cases.

To adopt the behavior of the future dentist.

To work in a team, developing the ability to collaborate with specialties from different fields of dentistry or general medicine.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to oral rehabilitation. Current concepts in complex oral rehabilitation. Patient management.	Multimedia presentation	-	-	2
2	Specifics of patient examination in dentistry. Anamnestic questionnaires. Functional disturbances of the body in systemic diseases. Functional disorders of the orofacial system (SOF). Clinical record of oral rehabilitation.	Multimedia presentation	-	-	2
3	Elements of physiopathology of the oral cavity. Age-specific changes. The oral cavity as an ecosystem-relevant aspects in oral rehabilitation	Multimedia presentation	-	-	2
4	Pre- and pro-prosthetic treatments in oral rehabilitation. Periodontal, orthodontic and orthognathic aspects. Principles of rehabilitation of endodontically treated teeth.	Multimedia presentation	TBL	-	2
5	Intrinsic and extrinsic value of abutment teeth. Criteria for choosing abutment teeth. Paraclinical and complementary examinations. Criteria for establishing the diagnosis.	Multimedia presentation	-	-	2
6	Aesthetics in oral rehabilitation. Dento-facial and dento-alveolar harmony. Color selection criteria.	Multimedia presentation	-	-	2
7	The therapeutic algorithm in the oral rehabilitation of the patient with coronary destruction. Clinical cases.	Multimedia presentation	-	-	2

8	The therapeutic algorithm in the oral rehabilitation of the partially edentulous patient through fixed prostheses. Clinical cases.	Multimedia presentation	-	-	2
9	The therapeutic algorithm in the oral rehabilitation of the partially edentulous patient through partial dentures. Clinical cases.	Multimedia presentation	-	-	2
10	Oral rehabilitation of the partially edentulous patient through total dentures. Clinical cases.	Multimedia presentation	TBL	-	2
11	Dental implants. Opportunities and clinical considerations.	Multimedia presentation	-	-	2
12	Implanto-prosthetic oral rehabilitation. Single implant restorations. Implantology with immediate loading. Clinical cases.	Multimedia presentation	-	-	2
13	Cranio-mandibular dysfunction. Concept. Etiology. Clinical features and signs. Therapeutic principles.	Multimedia presentation	-	-	2
14	Prosthetic rehabilitation of congenital and acquired maxillofacial defects.	Multimedia presentation	-	-	2
Bibliography					
1. Lecture Notes					
2. Preti G. Prosthetic Rehabilitation. Part I, II, Quintessence Publishing Co. Ltd., 2008, ISBN – 978-1-85097-166-5					
3. Jacobs S.H., O'Connell B.C.: Dental Implant Restoration. Principles and Procedures, Ed. Quintessence Publishing, 2011					
4. Zinner I.D., Panno F.V., Small S.A., Landa L.S.: Implant Dentistry: From Failure to Success, Ed. Quintessence Publishing, 2004					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline, of the dental equipment. Training on occupational safety in the dental office. Introductory notions of patient examination.	Multimedia presentation	-	-	2
2	The role of medical and dental history in establishing the diagnosis. The importance of the patient's chronic medication in establishing the treatment plan. Clinical activity.	Clinical and multimedia presentation	-	-	2
3	The role of paraclinical investigations in establishing the diagnosis and treatment plan. OPT, CT, CBCT investigations. Clinical activity.	Clinical activity	-	-	2
4	Documentation of clinical cases based on data from the literature. Clinical activity.	Practical activity. Querying databases.	-	-	2
5	Documentation of a clinical case. Clinical activity	Clinical activity	Elaboration of a diagnosis and treatment plan based on the clinical file, paraclinical investigations and data from the literature.	-	2
6	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
7	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
8	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
9	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
10	Case presentation. Clinical activity.	Multimedia presentation	Each student makes a case presentation, according to the rules of these presentations, which is then	-	2

			discussed and argued in front of colleagues. Equivalent to CBL 1.		
11	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
12	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
13	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
14	Case presentation. Clinical activity.	Multimedia presentation	Each student makes a case presentation, according to the rules of these presentations, which is then discussed and argued in front of colleagues. Equivalent to CBL 2	-	2

Bibliography

1.Preti G. Prosthetic Rehabilitation. Part I, II, Quintessence Publishing Co. Ltd., 2008

2.Course notes

3.Jacobs S.H., O'Connell B.C.: Dental Implant Restoration. Principles and Procedures, Ed. QuintessencePublishing, 2011

4.Zinner I.D., Panno F.V., Small S.A., Landa L.S.:Implant Dentistry: From Failure to Success, Ed. QuintessencePublishing, 2004

5.PA notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The acquisition of the concepts presented and the stimulation of active, logical thinking contribute to the formation of competitive specialists on the labor market, capable of performing complex treatments.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects withinthe course topic.	TBL average	20
- practical activities	Knowledge of the theoretical and practicalaspects within the topic of practical works.	CBL average	30
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects withinthe course topic.	Multiple choice test	40
- practical final exam	Knowledge of the theoretical and practicalaspects within the topic of practical works.	Interpretation of paraclinical examinations inthe context of a given clinical situation.	10

Minimal performance standards:

Minimal performance standards: Minimum performance standard: Obtaining a minimum grade of 5 (five) foreach component of the assessment:

course:

- to know the basic notions regarding oral rehabilitation,
- to participate in the discussion groups in the TBL system, on the mentioned topics

Practical works*:

- to perform the complete and complex examination of the patient,
- present at least one CBL 1 documented case presentation,
- to interpret a CT / CBCT in order to formulate the diagnosis and the treatment plan.
- treat and document a patient's treatment plan for CBL 2 clinical activity.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	Miercuri 11-12

Head of departament

Course coordinator

Practical activities coordinator(s)



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DIN TÂRGU MUREȘ

Syllabus

academic year: 2022 - 2023

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Community dentistry			
2.2 Course coordinator: Șef I dr Tohati Adrian-Roland			
2.3 Practical activities coordinator(s): Șef lucr.Dr Tohati Adrian, Șef lucr.Dr Petcu Blanka, Șef lucr.Dr Beresescu Liana, Asist.Dr. Bechir Farah			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 3		
- examinations: 4		
- other activities: 7		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: Video-projector, laptop
5.2 for practical activities: dental units, handpieces, various consumables

6. Specific competencies acquired

6.1 professional competencies: professional competencies: The student must be able to know the main methods and procedures for conducting an epidemiological investigation as well as the main techniques for developing projects for analysis and optimization of oral hygiene in different communities. The student will be competent in explaining the risks of exposure to various drugs and vices of various population groups, as well as exposing various measures to prevent the spread of these vices among the population.

6.2 transversal competencies: transversal competencies: The student will acquire the ability to detect and correlate interdisciplinary oral health issues as an integral aspect in the general system of human health and society.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Carrying out an epidemiological exploratory investigation. Design and presentation of oral prophylaxis sessions for different population categories
7.2 Specific objectives: Knowledge of different methods and techniques of elaboration and execution of the elements of the epidemiological investigation The technique of elaboration and communication of group prophylaxis sessions regarding the dental health and the extension of the different vicious habits

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History and introductory elements	Oral and multimedia presentation	nu e cazul	nu e cazul	2
2	Primary, secondary and tertiary health care	Oral and multimedia presentation	nu e cazul	nu e cazul	2
3	Family health	Oral and multimedia presentation	nu e cazul	nu e cazul	2
4	WHO indices of epidemiological surveys	Oral and multimedia presentation	nu e cazul	nu e cazul	2
5	Epidemiological inquiry: definition, aim, methodology	Oral and multimedia presentation	nu e cazul	nu e cazul	2
6	Epidemiological inquiry: training of medical staff, data collection	Oral and multimedia presentation	nu e cazul	nu e cazul	2
7	Epidemiological inquiry: interpretation and reporting of collected data	Oral and multimedia presentation	nu e cazul	nu e cazul	2
8	Compilation of statistics and verification of the feasibility of epidemiological surveys	Oral and multimedia presentation	nu e cazul	nu e cazul	2
9	Community oral health education: generalities, objectives, principles	Oral and multimedia presentation	nu e cazul	nu e cazul	2
10	Community oral health education: methods, techniques for transmitting information	Oral and multimedia presentation	nu e cazul	nu e cazul	2
11	Alcohol	Oral and multimedia presentation	nu e cazul	nu e cazul	2
12	Smoking	Oral and multimedia presentation	nu e cazul	nu e cazul	2
13	Drugs: Social issues and terminological clarifications	Oral and multimedia presentation	nu e cazul	nu e cazul	2
14	Actual Drugs	Oral and multimedia presentation	nu e cazul	nu e cazul	2
Bibliography Tohati Adrian. Elements of community dentistry Curs Lito UMF Tg.Mures 2018 Tohati Adrian, Bechir Farah. Concepts in Preventive Dentistry UMFST Tg. Mures 2019					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Practical establishment of the epidemiological investigation strategy	Practical demonstrations	nu e cazul	nu e cazul	4
2	Scheduling, detailing and management of trips in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
3	Travel in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
4	Travel in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
5	Scheduling, detailing and managing trips in school groups I-IV	Practical demonstrations	nu e cazul	nu e cazul	4
6	Travel in school groups grades I-IV	CBL session	nu e cazul	nu e cazul	4
7	Travel in school groups grades I-IV	Practical demonstrations	nu e cazul	nu e cazul	4
8	Scheduling, detailing and management of trips in groups of students grades V-VIII	CBL session	nu e cazul	nu e cazul	4
9	Travel in school groups V-VIII	Practical demonstrations	nu e cazul	nu e cazul	4
10	Travel in school groups V-VIII	Practical demonstrations	nu e cazul	nu e cazul	4
11	Scheduling, detailing and managing travel in college level communities	Practical demonstrations	nu e cazul	nu e cazul	4
12	Travel to community at the college level communities	Practical demonstrations	nu e cazul	nu e cazul	4
13	Scheduling, detailing and managing travel in communities with special needs	Practical demonstrations	nu e cazul	nu e cazul	4
14	Travel in communities with special needs	Practical demonstrations	nu e cazul	nu e cazul	4
Bibliography Tohati Adrian. Elements of community dentistry Curs Lito UMF Tg.Mures 2018 Tohati Adrian, Bechir Farah. Concepts in Preventive Dentistry UMFST Tg. Mures 2019					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The student must know different methods of designing and executing the epidemiological investigations, as well as the elaboration of a group oro-dental prophylaxis session

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	nu e cazul	nu e cazul	0
- practical activities	2 x CBL session	presentations	30
Final evaluation			
- theoretical final exam	Sumative examination	MCQ	50
- practical final exam	practical presentation	practical examination	20
Minimal performance standards: Minimal performance standards: Minimum performance standard: Elaboration and practical realization of an exploratory epidemiological investigation plan, realization of a presentation of oro-dental prophylaxis on different population groups. -To validate the evaluations, the grade of each component that is included in the calculation of the final grade must be at least 5. - the minimum conditions for admission to the final examination require the completion of a number of 2 trips in groups of preschoolers or schoolchildren grades I-IV, as well as a number of 2 trips in groups of schoolchildren grades V-VIII, high school or special needs school in order to perform oro-dental prophylaxis sessions. -No more than 2 absences are allowed for the activity of practical works.			

11. Must seen clinical situation list

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12. Clinical / practical abilities

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13. Appointment timetable (for students)

Şef I dr Tohati Adrian-Roland	Friday 17-18

Head of departament

Course coordinator

Practical activities coordinator(s)