

DEN4002 Clinical Medical Sciences in Dentistry-V

Course title	Code	Semester	Type of course	Course structure and volume (hours)			ECTS
Clinical Medical Sciences in Dentistry-V (Allergology, Cl. Immunology, Rheumatology, Infective disease),	DEN4002	VIII	Mandatory	LECTURE	45	150	5
				Seminar	20		
				Teaching in Simulation Environment (TSE)			
				Teaching in Clinical Environment (TCE)	12		
				Midterm EX.	1		
				FINAL EX.	2		
				INDEP. WORK	70		
Faculty, the educational program and level of education	School of Medicine and Health Sciences, One cycle (5-years duration) Higher Educational program “Dentistry”						
staff	Giorgi Gurgenidze - Invited Teacher, MD, PhD Mob.tel: 599183216; E-mail: gurgenidze.george@bauinternational.edu.ge Sabina Mejidova -invited teacher Mob.tel: +995 577 14 09 39 E-mail sabina.mejidova@bauinternational.edu.ge Neriman Tsintsadze - Assoc.prof. MD, PhD Mob.tel: 599170188 E-mail tsintsadze.neriman@bauinternational.edu.ge Mamuka Zakalashvili - Invited Teacher, MD, Mob.tel: 555558858; E-mail: mamuka.zakalashvili@bauinternational.edu.ge Personal one-to-one consultation can be arranged at an agreed upon date and time.						
Duration	15 weeks						
Prerequisite	DEN2001, DEN2003						
Aim	The course aims to give comprehensive knowledge of allergology, clinical immunology, hematology, rheumatology, and infectious diseases. In addition, students will study all systemic diseases that are connected with oral health. In addition, the course goal is to teach the students the main and dental approach to the patients with the above-mentioned diseases.						
Methods of Teaching/Learning	Interactive lectures, Seminars, TCE						

<p>Assessment System and Criteria</p>	<p>Attendance - student is obliged to attend 70% of the total number of the learning course</p> <p>The knowledge of the student is evaluated by 100 point-based evaluation system out of which 40 points is allocated for the current activity assessment, 20 for each midterm exam and 40 points for the final exam.</p> <p>1. Current activity assessment - 40 points, including the following:</p> <ul style="list-style-type: none"> • CBD - 5x10=10 points; (calculated average) • DOPS – 4X5=20 points; • Mini-CEX 2x5= 10 points; <p>Case Based Discussion (CBD) – 10 points</p> <p>Student will discuss cases in front of lecturer. Each case will be evaluated with maximum 10 points. There is 5 assessment components for each case:</p> <p>1. Defines the problem- 2 points What are the issues raised in this case? What are the pathological processes? What problems are you trying to resolve?</p> <p>2. Integrates information - 2 points What relevant information you have? How will the data/information/evidence you have will help you to make your decision? How did you use the data/information/evidence available to you in this case? What other information could have been useful?</p> <p>3. Prioritizes options of diagnostic methods - 2 points What are your options? Which did you choose? Why did you choose this particular one? What are the advantages/disadvantages of your decision? How do you balance them?</p> <p>4. Justifies decision of treatment - 2 points How do you justify your decision? What are the implications of your decision? What evidence/information have you to support your choice? Can you give an example? Can you apply it to this case?</p> <p>5. Upholds duties of a doctor - 2 points What ethical framework did you refer to in this case? How did you apply it? How did you establish the patient's point of view? What are your responsibilities/duties? How do they apply to this case? How did you make sure you observed them? Why are they important?</p> <p>Evaluation criteria for each five components: 2 points – in full compliance 1 point – partially compliant 0 points – non compliant</p> <p>Directly Observed Procedural Skills (DOPS) assessment criteria - 5 points Student will perform following practical assignments on the manikin:</p>
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Assessed Competencies	Poor (0 points)	Fair (0.5 points)	Competent (1 point)
Preparation/aftercare/safety			
Technical expertise			
Clinical Reasoning/Judgement			
Organization and efficiency/time management			
Professional conduct			
Total score:			
	Low	Medium	High
<p align="center">Mini clinical evaluation exercise (Mini-CEXs) 5 points</p> <p>Exercise will be performed in clinical environment (simulation or bed side) in the process of student's individual work with patient. Each exercise will be evaluated with 5 criteria, maximum 1 point for each.</p> <p>Good - 1 point, Satisfactory - 0.5 Points, Unsatisfactory - 0 points,</p> <p>1. Medical Interviewing Skills (score 1)</p> <ul style="list-style-type: none"> - Encourages the patient to communicate about his medical history; - Sets appropriate questions to obtain information; - Responds appropriately to emotion and non-verbal signals. <p>2. Physical Examination Skills (score 1)</p> <ul style="list-style-type: none"> - Maintains a logical and efficient sequence; - Maintains a balance between general and hypothetical focused research; - Informs the patient; - Shows sensitivity to patient's comfort and modesty. <p>3. Professional Qualities (score 1)</p> <ul style="list-style-type: none"> - Shows respect, commitment, empathy, and generates confidence; - Responds adequately to discomfort and embarrassment; - Responds appropriately to the need for privacy and information. <p>4. Problem analysis, clinical reasoning (score1)</p>			

- Uses appropriately and selectively diagnostic procedures;
- Considers properly risks and profit.

5. Communication with the patient (score 1)

- Explains in understandable terms for the patient indications for examination and treatment;
- Asks for informed consent where necessary;
- Discusses the policy;
- Provides information in accordance with the law on patients' rights.
- Informs patient regarding disease prevention and healthy lifestyle.

2. Midterm Exams - 20 points;

The exam is conducted in test form (MCQ. Max score 0.4) form. Number of questions is 50. The highest possible score is 20.

3. Final Exam - 40 points

Final Exam is conducted in a combined form:

MCQ- 50 questions (One question- max score 0.4), totally 20 points.

Written form -5 Clinical Cases each scored at maximum 4 points. Totally 20 points.

Prerequisites for Final Exam are:

- Prerequisite for Final Exam is the situation when at least 60 % of the CBD scores is achieved.
- 70% of learning course hours should be attended.

Final Exam Case analysis (written assignment) (4 points)

Students will discuss/analyze clinical case according to study materials individually in a written manner.

Points Grading Scale

- 4 interpretation of examination results are correct, diagnosis is defined correctly, is evidence based, knows etiology, pathogenesis, clinical flow, treatment plan is defined correctly;
- 3 interpretation of examination results are correct, diagnosis is defined correctly, is evidence based, knows etiology, pathogenesis, clinical flow, treatment plan is not correct;
- 2 interpretation of examination results are correct, diagnosis is defined correctly, is evidence based, does not know etiology, pathogenesis, clinical flow, treatment plan is not correct;
- 1 interpretation of examination results are correct, diagnosis is incorrect, treatment plan is not correct;
- 0 Interpretation of examination results are incorrect, diagnosis is incorrect, and treatment plan is incorrect.

The exam is considered being passed by the student if he/she receives **55% or more** out of the highest evaluation for the exam (40x50/100=20 points). When the total evaluation of the student (current evaluation + midterm exam evaluation + final exam evaluation) is more that 40 but less than 51 points, even though the exam grade threshold is passed, the learning course is considered not being covered and the student is given the right to exam retake during the additional examination period.

	<p>If the final evaluation for the Learning Course, after taking the additional exam, (current evaluation + midterm exam evaluation + final exam evaluation) is less than 51%, the learning course is not considered covered and it must be taken again.</p> <p>In summary, the student is awarded the credit in case he/she accumulates minimum 51% out of 100%.</p> <p>Within the educational component of the educational program, in case of FX assessment, a makeup exam is appointed no later than 5 days after announcement of the examination results.</p> <p>Positive scores:</p> <ul style="list-style-type: none"> • (A) Excellent- 91 or more points; • (B) Very Good- 81-90 points; • (C) Good- 71-80 points; • (D) Satisfactory- 61-70 points; • (E) Enough- 51-60 points; <p>Negative scores:</p> <ul style="list-style-type: none"> • (FX) Failure - 41-50 points: the student needs more independent work and is granted a single attempt of exam retake; • (F) Fail - 40 points or less: the student's conducted work is not sufficient and needs to take the course again. <p>The student can take the additional exam during the same semester.</p> <p>After the results of final exams are available, students with FX assessment have a right to retake an exam during an additional exam week in the same semester.</p> <p>An interval between a final and a corresponding additional exam must be at least 5 days after the results of a final exam become available.</p>
The core literature	<ol style="list-style-type: none"> 1. Harrison's Principles of Internal Medicine vol-1- Dennis L.Kasper;Stephan L.Hauser; Mc Graw Hill Education; 18th ed; 2015; 2. Harrison's Principles of Internal Medicine vol-2- Dennis L.Kasper;Stephan L.Hauser; Mc Graw Hill Education; 19th ed; 2015;
The auxiliary literature	<ol style="list-style-type: none"> 1. Clinical immunology: Robert R. Rich; 4th ed. Elsevier Saunders; 2013 2. Hoffbrand's essential haematology; Hoffbrand, A. V., Seventh edition. Wiley Blackwell; 2016 3. Infectious Diseases V-I; Cohen J, Powderly W.G, Opal S.M; Elsevier Mosby; 3rd edition; 2015 4. Therapeutic Strategies:Rheumatology- Doherty, M. Clinical Publishing; 2010; e-book. 5. Chronic Autoimmune Epithelitis : Sjogren's Syndrome and Other Autoimmune Diseases of the Exocrine 6. Glands- Maria Maślińska; 2019; e-book. 7. Allergen- Seyyed Shamsadin Athari; IntechOpen; 2017; e-book

Learning Outcomes

NQF *	COURSE LEARNING OUTCOMES	PROG. LO	Lec tur e	Se min ar	Tea chi ng in sim ulat ion env iron me nt	Tea chi ng in clini cal env iron me nt	Mid ter m ex.	Fin al exa m	ASSES. METH.
KNO WLE DGE AND AWA REN ESS	<p>The student;</p> <ul style="list-style-type: none"> Defines the rheumatologic, allergologic, immunologic disorders and relates them to dental interventions. Defines the allergic reactions and metabolic process of allergy and explains the dental approach to patients with allergies. Defines the immunologic response and immunologic disorders, correlates with clinical findings, and identifies the dental approach to patients with immunologic disorders. Defines infection diseases, which correlate with the oral cavity. Properly analyzes and perceives patient complaints, genetic and social history. Can complete patient history. Knows own limits and can demonstrates critical self-assessment skills and as a result understands when to seek help or advice. Correctly sets the limits of one's own capabilities. 	8.1 9.1 4.1	X	X	X	X	X	X	CBD. MCQ Mini_CEX Clinical case
SKILL	<ul style="list-style-type: none"> taking into account the needs of the patient and the interests of the patient . Applies methods of Infection controle Applies laboratory investigation to diagnose immunologic, rheumatologic, allergological, and infectious diseases Applies basic physical examination procedures for the above-mentioned diseases; Manages allergology complications, which can appear during dental manipulations 	9.2 1.1 6.3		X		X		X	CBD DOPS, Mini-CEX
RESP ONSI BILIT Y AND AUT	<ul style="list-style-type: none"> Has the ability of critical thinking, analysis and synthesis; Has the capacity to adapt to new situations and renew learning. 	11.1 11.2 11.3 11.6							CBD clinical case

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Supplement 1
Learning Course Content

WEEKS №	Topics	Lecture (hrs)	Seminar (hrs)	TSE (hrs)	TCE (hrs)
I-III	Haematologic Disorders Haemostasis; Haemostasis Screening Tests Bleeding (Haemostatic) Disorders'; Vascular and Platelet Disorders Blood Coagulation Disorders Congenital Coagulation (Clotting) Disorders (Coagulopathies) Acquired Coagulation Defects Postoperative Bleeding Thrombotic Disorders Erythrocytes (Red Blood Cells), Anaemia; Leukocytes (White Blood Cells); Leukopenia. Malignant Disease of Bone Marrow Transplantation (Haemopoietic Stem Cell Transplant CBD (Case Based Discussion) DOPS	10	4		
IV-VI	Rheumatology Bone Diseases Joint Diseases; connective tissue disease; Acquired Disorders Muscle Diseases 2 CBD DOPS	5	4		3

VI	Midterm Exam		1		
VII-VIII	Immunology Secondary Immune Defects Dental Aspects of HIV/AIDs Transfusion-Related Immunomodulation (TRIM) Idiopathic CD4 T-Lymphocytopenia (ICL) Anti-Interferon Immunodeficiency Other Secondary Immunodeficiencies Primary (Congenital); SCID; Lymphocyte Defects Antibody Deficiency Syndromes Phagocyte Defects Complement Defects Autoimmune disorders Mini-Cex 2 CBD	10	4		3
IX-XII	Allergology Clinical Features of Allergies General Management of Allergies Anaphylaxis; Allergic Rhinitis (Hay Fever); Asthma; Eczema; Angioedema Food Allergy and Intolerance Hypersensitivity to Drugs and Materials Diagnosis of allergic disease Treatment DOPS 2 CBD	10	4	4	3
XIII-XV	Infections and Infestations Emerging Infections Infection Control and prevention; Disease Notification Bacterial Infections- bacterial infection of oral cavity, bacterial infection of apper respiratory tract; Viral Infections- viral infection of oral cavity, bacterial infection of apper respiratory tract; Mycoses (Fungal Infections) Mini-cex DOPS 2 CBD	10	4		3

XVII-XX I	Final Exam	2
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