

Course title	Code	Semester	Type of course	Course structure and volume (hours)			E C T S
Therapeutic Dentistry VI (Clinical Periodontology)	DEN 5001	IX	Mandatory	LECT	24	120	4
				Seminar	22		
				Teaching in Simulation Environment (TSE)			
				Teaching in Clinical Environment (TCE)	40		
				Midterm Exam	1		
				FINAL EXAM	2		
				INDEPENDENT WORK	31		
Faculty, the educational program and level of education	School of Dental Medicine One cycle (5-year duration) Higher Educational Program “Dentistry”						
Staff	<p>Nino Cheminava, DMD, PhD, Professor, E-mail: nino.cheminava@bauinternational.edu.ge, mob.: 599 099 258</p> <p>Nino Tebidze - Assistant Professor E-mail: nino.tebidze@bauinternational.edu.ge</p> <p>Eter Bukhnikashvil, assistant E-mail : tamar.dgebuadze@bauinternational.edu.ge</p> <p>Ketevan Chichua, invited lecturer E-mail : ketevan.chichua@bauinternational.edu.ge</p> <p>Tamar Maglakelidze- invited lecturer E-mail: Tamar.maglakelidze@bauinternational.edu.ge</p> <p>Ana Chkhenkeli- invited lecturer E-mail: ana.chkhenkeli@bauinternational.edu.ge</p> <p>Personal one-to-one consultation can be arranged at an agreed date and time</p>						
Duration	17 weeks						
Prerequisite	DEN 4008 - Therapeutic Dentistry V -Propaedeutic of Periodontology (Preclinical).						

Aim	The aim of the course is to give advanced knowledge in diagnosing and treatment planning of periodontal diseases according to the individual needs, perform treatment manipulations and analyze prognosis of periodontal diseases.						
Methods of Teaching/Learning	<ul style="list-style-type: none">• Interactive Lectures;• Seminars;• TCE <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 are allocated for the current activity assessment, 20 for midterm exam and 40 points for the final exam.</p>						
Assessment System and Criteria	<p>1. Current activity - 40 points, including the following:</p> <ul style="list-style-type: none">• CBL - 2x10=20 points;• Mini-CEX – 2x5=10 points;• DOPS – 2x5=10 points; <p>CBL -Clinical Case assessment criteria (10 points):</p> <p><u>Assessment criteria</u></p> <ol style="list-style-type: none">1. Ability of case interpretation - 2 points;2. Ability of using additional sources - 2 points;3. Ability of applying theoretical knowledge - 2 points;4. Ability of correlating normal and pathological conditions - 2 points;5. Ability of drawing conclusions – 2 points. <table><tr><td>In full compliance (2 points)</td><td>Partially compliant (1 point)</td><td>Not compliant (0 point)</td></tr></table> <p>Mini- CEX – Mini Clinical Evaluation Exercise (5 points):</p> <p><u>Assessment criteria</u></p> <ol style="list-style-type: none">1. History taking/Consultation/Clinical Examination - 1 point;2. Communication - 1 point;3. Clinical reasoning - 1 point;4. Organization and efficiency - 1 point;5. Professional Conduct - 1 points; <table><tr><td>Poor (0 points)</td><td>Fair (0.5 points)</td><td>Competent (1 point)</td></tr></table> <p>Directly observed procedural skills</p> <p>Student has to perform following practical assignments on phantom:</p>	In full compliance (2 points)	Partially compliant (1 point)	Not compliant (0 point)	Poor (0 points)	Fair (0.5 points)	Competent (1 point)
In full compliance (2 points)	Partially compliant (1 point)	Not compliant (0 point)					
Poor (0 points)	Fair (0.5 points)	Competent (1 point)					

- Assess the condition of soft tissues, determine the quality of lack of gingiva, its depths with appropriate tools and methods;
- undertaking supragingival and subgingival stone removal procedures; scaling and root debridement, using both powered and manual instrumentation

Directly Observed Procedural Skills (DOPS) assessment criteria - 5 points

- Performs manipulations/procedures fully and without mistakes - 5 points;
- Performs manipulations/procedures fully and with some mistakes – 4 points;
- Performs manipulations/procedures partially and without mistakes – 3 points;
- Performs manipulations/procedures partially with mistakes – 2 points
- Performs some steps of manipulations/procedures with lots of mistakes – 1 point.

2. Midterm Exam - 20 points;

The exam is conducted in a test-based form (Multiple Choice Questions - MCQ). The test includes 50 questions and the maximal value of each is 0.4 points. The highest possible score is 20.

3. Final Exam - 40 points

Final Exam is conducted in a combined way:

- Test-based form (MCQ -50 tests with 0.4 point for each question -20 points
- Oral form (3 issues /clinical cases, each scored at maximum 5 points)- 15 points
- Mini-cex- 5 points

Verbal Exam assessment criteria (5 points)

5 points - The answer is comprehensive. Student's thinking ability is clearly visible. The topic is precisely and fully presented. The terminology is duly used. The student masters the material regarded by the course on a proper level. He/she has fully and profoundly learnt main as well as literature.

4 points - The student answers all questions, but independent thinking ability is not clearly visible. The terminology is correctly used. No major errors can be found. The student masters the material regarded by the course on a proper level. He/she has learnt the main literature.

3 points - The answer is incomplete. The topic is presented on satisfactory level but it lacks the thinking ability and is rather based on memorizing. The terminology is scarcely used. The student masters the material regarded by the course but a few errors can be detected.

2 points - The answer is incomplete. The terminology is incompletely used. The material is partially presented. The student masters the main literature on insufficient level. A few major errors can be detected.

1 point - Student's answer is not complete. The terminology is not used or is used in a wrong way. The answer is mainly erroneous. The topic is presented in a fragmented fashion.

0 points - The answer does not correspond to the question or it is not presented at all.

Prerequisite for Final Exam are:

- Prerequisite for Final Exam is the situation when at least 50 % of the current assessment level

	<p>is achieved.</p> <ul style="list-style-type: none"> 70% of the Subject hours should be attended. <p>The exam is considered being passed by the student if he/she receives 50% 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 evaluations + final exam evaluation) is more than 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> <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>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>
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The core literature	<ol style="list-style-type: none"> Periodontology: the essentials – Hans Peter Mueller; Thieme; 2nd ed. 2005. Newman and Carranza clinical periodontology-Michael G. Newman, Henry H. Takei, Perry R. Klokkevold, Fermin A Carranza; Elsevier; 13th ed.2019. Newman and Carranza's essentials of clinical periodontology-Michael Newman, Irina Dragon, Satheesh Elangovan, Archana Karan; Elsevier; 2021.
The auxiliary literature	<p>https://aap.onlinelibrary.wiley.com/toc/19433670/2018/89/S1Proceedings of the World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. Co-edited by Kenneth S. Kornman and Maurizio S. Tonetti. The workshop was planned and conducted jointly by the American</p>

	<p>Academy of Periodontology and the European Federation of Periodontology with financial support from the American Academy of Periodontology Foundation, Colgate, Johnson & Johnson Consumer Inc., Geistlich Biomaterials, SUNSTAR, and Procter & Gamble Professional Oral Health.</p> <p>https://www.efp.org/publications-education/new-classification/resources/guidelines/</p> <p>https://www.efp.org/publications-education/new-classification/resources/</p>
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Learning Outcomes

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KN OW LED GE A N D A W A R E N E S S	Student: <ul style="list-style-type: none"> identifies and recognizes all clinical features of periodontal disease; Is aware a differential diagnosis Knows the methods used to diagnose periodontal diseases; Demonstrates knowledge of methods of treatment of periodontal diseases Understands peculiarities of disease management of patients with special needs; Realizes received information from other additional sources; 	1.1 6.1 8.1 8.2 9.1	X	X			X	X	<ul style="list-style-type: none"> MCQ CBL ORAL EXAM

S K I L L	<ul style="list-style-type: none"> • Takes anamnesis; Identifies the chief complaints of the patient and obtains a history of present illness; • Conducts extra- and intraoral examination of patients with periodontal disease with recording all those findings; • Uses appropriately and selectively diagnostic procedures; • Applies some other additional methods of examination (visiography or others); • Manages periodontal disease of patients (with special needs also); • Uses skills of undertaking supragingival and subgingival scaling and root debridement, using both powered and manual instrumentation including stain removal and prophylaxis. • Formulates relevant differential diagnoses and creates an appropriate diagnostic and therapeutic plan; • Evaluates the outcome of treatment, establishes a monitoring program, and maintains the outcome of treatment received; • Has the ability of analysis and synthesis; • Has the ability of problem solving, critical thinking and decision making. 	6.4 8.1 8.2 9.4 9.7 11.1 11.3		X		x			<ul style="list-style-type: none"> • DOPS • CBL • Mini-CEX
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Supplement 1

Learning Course Content

No wee ks	Topics	Lectu re (hrs.)	SE M	TSE	TC E
I-II	Periodontal Examination and Diagnosis. Radiographic Aids in the Diagnosis of Periodontal Diseases; Clinical Risk Assessment; Prognosis, and Treatment Plan.	2			3
III-IV	Management of Patients with Special Needs: Conscious Sedation; Periodontal Treatment of Medically Compromised Patients; Sleep-Disordered Breathing; Periodontal Therapy in the Female Patient; Periodontal Treatment for Older Adults; Treatment of Aggressive and Atypical Forms of Periodontitis CBL;	2	2		3
V	Diagnosis and Treatment of Periodontal Emergencies: Treatment of Acute Gingival Disease; Treatment of Periodontal Abscess Mini-Cex	2	2		3
VI	Endodontic-Periodontic Lesions: Other Periodontal Conditions: Periodontal Abscesses Endo-Periodontal Lesions: Pathogenesis, Diagnosis, and Treatment Consideration	1	2		3
VII-VIII	Midterm exam	1			
XIX	Mucogingival deformities and conditions around teeth. (gingival phenotype, soft tissue recession, lack of gingiva, decreased vestibular depth, aberrant frenum/ muscle position, gingival excess, abnormal color, condition of the exposed root surface). DOPS	2	2		3
X	Occlusal Evaluation and Therapy; Traumatic Occlusal Forces (Primary, Secondary and Orthodontic Forces). Periodontal Response to External Forces; Masticatory System and Occlusion Disorders that Influence the Periodontium. Prostheses and Tooth-related factors that modify or predispose to plaque-induced gingival diseases/periodontitis. Adjunctive Role of Orthodontic Therapy;	2	2		3
XI	Peri-Implant Diseases and Conditions. (Peri-implant health, Peri-implant mucositis, Peri-implantitis, Hard and soft tissue implant site deficiencies)	2	2		3

XII	Nonsurgical Treatment: Phase I and II Periodontal Therapy; Plaque Biofilm Control for the Periodontal Patient; Breath Malodor; Scaling and Root Planning; Sonic and Ultrasonic Instrumentation and Irrigation; DOPS	2	2		3
XIII	Systemic Anti-infective Therapy for Periodontal Diseases Locally Delivered, Controlled-Release Antimicrobials e7 Host Modulation	2	2		3
XIV	General principles of the Surgical Treatment: Phase III Periodontal Therapy; Periodontal and Peri implant Surgical Anatomy; General Principles of Periodontal Surgery. Treatment of Gingival Enlargement; CBL	2	2		
XV	Respective Osseous Surgery; Periodontal Regeneration and Reconstructive Surgery; Furcation: Involvement and Treatment	2	2		3
XVI	Periodontal Plastic and Esthetic Surgery; Leukocyte and Platelet Rich Fibrin (L-PRF), Biological Properties and Applications; Periodontal Microsurgery; Lasers in Periodontal And Peri-Implant Therapy	1	2		4
XVII	Periodontal-Restorative Interrelationships: Preparation of the Periodontium for Restorative Dentistry; Restorative Interrelationships; Multidisciplinary Versus Interdisciplinary Approaches to Dental and Periodontal Problems; Supportive Care and Results of Periodontal Treatment: Supportive Periodontal Treatment; Results of Periodontal Treatment Mini-Cex	2			6
	Final Exam	2			

