

Course title	Code	Semester	Type of course	Course structure and volume (hours)		ECTS	
Geriatric dentistry	DEN 4014	VIII	Mandatory	LECT	14	90	3
				Seminar	21		
				Teaching in Simulation Environment (TSE)	4		
				Teaching in Clinical Environment (TCE)	4		
				Midterm Exam	1		
				FINAL EXAM	2		
				INDEPENDENT WORK	44		
Faculty, the educational program and level of education	School of Medicine and Health Sciences One cycle (5-years duration) Higher Educational program “Dentistry”						
Staff	<b>Nino Tebidze</b> - Assistant Professor of Dentistry, e-mail: <a href="mailto:nino.tebidze@bauinternational.edu.ge">nino.tebidze@bauinternational.edu.ge</a> ; mob.: 574 08 90 90 <b>Natia Kharati</b> – Assistant of Medicine e-mail: <a href="mailto:natia.kharati@bauinternational.edu.ge">natia.kharati@bauinternational.edu.ge</a> ; mob.:599 502 512 <b>Natalia Kurdadze</b> - invited lecturer Mob: +995 579 542 626 email: <a href="mailto:natalya.kurdadze@gmail.com">natalya.kurdadze@gmail.com</a> <b>Nata Ramishvili</b> - invited lecturer <a href="mailto:Nata.ramishvili@bauinternational.edu.ge">Nata.ramishvili@bauinternational.edu.ge</a> Personal one-to-one consultation can be arranged at an agreed date and time						
Duration	3 weeks						
Prerequisite	Surgical Anatomy of Head & Neck Area; Dental Anatomy & Occlusion (preclinical odontology)						
Aim	The aim of the course is to give advanced knowledge in general issues of aging; aging dynamics of human physiological and functional systems; age related disease, especially diseases which effects on the oral health. To create elderly care management plan (especially peculiarities of dental care); to assess an elderly patient’s mental health, physical health and social ability; also age related changes in oral cavity, common pathologies and treatment peculiarities.						
Methods of Teaching/Learning	<ul style="list-style-type: none"><li>● Interactive Lectures;</li><li>● Seminars;</li><li>● TSE</li><li>● TCE</li></ul>						

<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 are allocated for the current activity assessment, 20 for midterm exam and 40 points for the final exam.</p> <p>1. Current activity - 40 points, including the following:</p> <ul style="list-style-type: none"> <li>• CBL – 2 x 10=20 points;</li> <li>• Discussion – 2 x 5=10 points;</li> <li>• DOPS – 5 points;</li> <li>• Mini CEX – 5 points</li> </ul> <p>Clinical Case (CBL) assessment criteria (10 points):</p> <ol style="list-style-type: none"> <li>1. Ability of case interpretation - 2 points;</li> <li>2. Ability of using additional sources - 2 points;</li> <li>3. Ability of applying theoretical knowledge - 2 points;</li> <li>4. Ability of correlating normal and pathological conditions - 2 points;</li> <li>5. Ability of drawing conclusions – 2 points.</li> </ol> <p>2 points -full compliance 1-partially compliance 1- No compliance</p> <p>Discussion assessment criteria (5 points)</p> <ol style="list-style-type: none"> <li>1. Argumentativeness of represented factual material -1 point;</li> <li>2. Complexity of represented factual material -1 point;</li> <li>3. Discussion activity – 1 point;</li> <li>4. Debating and listening culture - 1 point;</li> <li>5. Keeping within the time-limit – 1 point;</li> </ol> <p>Directly Observed Procedural Skills (DOPS) assessment criteria - 5 points</p> <ul style="list-style-type: none"> <li>• Performs manipulations/procedures fully and without mistakes - 5 points;</li> <li>• Performs manipulations/procedures fully and with some mistakes – 4 points;</li> <li>• Performs manipulations/procedures partially and without mistakes – 3points;</li> <li>• Performs manipulations/procedures partially with mistakes – 2 points</li> <li>• Performs some steps of manipulations/procedures with lots of mistakes – 1 point.</li> </ul>
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Mini- CEX – Mini Clinical Evaluation Exercise (5 points):

1. History taking/Consultation/Clinical Examination - 1 point;
2. Communication - 1 point;
3. Clinical reasoning - 1 points;
4. Organization and efficiency - 1 points;
5. Professional Conduct - 1 points;

- Midterm Exams - 20 points;

The exam is conducted in a test-based form (Multiple Choice Questions - MCQ). The test includes 50 questions and the value of each is 0,4 points. The highest possible score is 20.

- 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 (4 issues / clinical cases, each scored at maximum 5 points)- 20 points

Oral 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 is achieved.
- 70% of the Subject hours should be attended.

The exam is considered being passed by the student if he/she receives 50% or more out of the highest

evaluation for the exam (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 grad

	<p>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%. Positive scores:</p> <ul style="list-style-type: none"> <li>• (A) Excellent- 91 or more points;</li> <li>• (B) Very Good- 81-90 points;</li> <li>• (C) Good- 71-80 points;</li> <li>• (D) Satisfactory- 61-70 points;</li> <li>• (E) Enough- 51-60 points;</li> </ul> <p>Negative scores:</p> <ul style="list-style-type: none"> <li>• (FX) Failure - 41-50 points: the student needs more independent work and is granted a single attempt of exam retake;</li> <li>• (F) Fail - 40 points or less: the student's conducted work is not sufficient and needs to take the course again.</li> </ul> <p>The student can take the additional exam during the same semester. 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. 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	<ul style="list-style-type: none"> <li>• <b>Geriatric dentistry : caring for our aging population</b>- Paula K. Friedman; Wiley Blackwell; 2014; e- book.</li> <li>• <b>Essentials of Clinical Geriatrics</b>- Robert L. Kane,; McGraw- Hill Education; 7<sup>th</sup> ed. 2013;</li> <li>• <b>Geriatrics: Current diagnosis&amp;treatment</b>- Brice A.Williams; Anna Chang; McGraw- Hill Education Medical; 2nd ed. 2014;</li> <li>• <b>Textbook of Geriatric Dentistry</b>-Poul Holm-Pedersen; Angus W.G. Walls; Jonathan A. Ship;Wiley Blackwell; 3rd.ed; 2015</li> <li>• <b>The Elderly Patient in General Practice</b> (Teaching and Training in Geriatric Medicine) by W. Meier-Ruge; 1987</li> </ul>
The auxiliary literature	<ol style="list-style-type: none"> <li>1.Textbook of Medicine- KV Krishna Das; (Volume I-II); The Health Sciences Publisher; 6th.ed. 2017;</li> <li>2. Bedside Approach to Medical Therapeutics with Diagnostic Clues- Gami, N.K; Jaypee 3. Brothers Medical Publishers; 1st.ed. 2005;</li> <li>4. Ambulatory Medicine Case Book- Joyce P. Doyle; Laura J. Martin; Lippincott, Williams &amp; Wilkins; 2002;</li> </ol>



NQF*	COURSE LEARNING OUTCOMES	PR OG. LO	LECT URE	SEMI NAR	TSE	TCE	MID TER M EXA M	FINA L EXA M	ASSES. METH.
KNOWLE D GE AND AWAREN E SS	<ul style="list-style-type: none"> <li>Has deep and comprehensive knowledge and understanding of Geriatrics and specificity of aging</li> <li>Recognizes and assesses the severity of clinical presentations; the commonly seen geriatric disorders in society;</li> <li>Knows peculiarities of elderly care;</li> <li>Is aware of age related changes in oral cavity and the role of chronic diseases in it;</li> <li>Describes common oral pathologies of elderly;</li> <li>Identifies correct diagnostic methods;</li> <li>Has knowledge how to create treatment plan</li> <li>understands the ethical principles of health care and acts accordingly at all times and in all situations, taking into account the needs of the patient and the interests of the patient.</li> <li>understands when to seek help or advice. Correctly sets the limits of one's own capabilities. Reveals professional responsibility for his actions and decisions.</li> </ul>	6.1 6.2 1.1 4.1	X	X	X	X	X	X	<ul style="list-style-type: none"> <li>MCQ</li> <li>CBL</li> <li>Oral exam</li> <li>Mini-Cex</li> </ul>

SKILL	<ul style="list-style-type: none"> <li>Report comprehensive and focused history taking and complete and detailed physical examination;</li> <li>Can conduct intraoral examination of elderly patients;</li> <li>Is able to conduct some manipulations in elderly oral cavity with taking in account peculiarities of elderly oral cavity</li> <li>Facilitate discussions with patients and their families in a way that is respectful, nonjudgmental, and culturally safe;</li> <li>Follow ethical principles and shows analytical skills in treatment process;</li> <li>Demonstrate effective clinical problem solving and judgment to address patient problems;</li> <li>Student can perform several procedures (Blood pressure, drug injection to the vein, subcutaneous, intramuscular, catheterization, oxygen delivery) in old patients</li> <li>Student demonstrates the patient oriented skills of the interviewers for gathering the psychosocial and</li> <li>Analyze the cases of patients' safety for further improving the service system;</li> <li>Revise appropriateness of drugs and other therapies and evaluate potential benefits and risks for the patient;</li> <li>Can direct on additional diagnostic methods and prepare material for it (smear taking);</li> <li>able to perform dif. diagnosis</li> <li>put proper diagnosis</li> <li>Can express respect for the elderly and takes into account peculiarities of elderly care</li> </ul>	7.2 7.3 8.1 8.2 9.1		X	X	X			<ul style="list-style-type: none"> <li>DOPS</li> <li>CBL</li> <li>Mini CEX</li> </ul>
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RESPONSIBILITY AND AUTONOMY	have problem solving, critical thinking and decision making skills	11.3 11.4		X		X			<ul style="list-style-type: none"> <li>• CBL</li> <li>• Mini CEX</li> </ul>
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Supplement 1

Learning Course Content

Days	Topics	Lecture (hrs.)	SEM	TSE	TCE
I-II	Geriatrics as a scientific- practical direction of natural, medical and social sciences. Senility Biology. Human physiological and functional systems dynamic of age	2	2		
III-IV	Organization of body functions, development, age and Disease: Cardio-vascular senility, Respiratory, GI tract, urinary system senility problems	2	2		
V-VI	Muscular-skeletal System Diseases; Nervous and Mental Disorders; Senility Dementias and Depressions Discussion	1	3		
VII	Dental professionals as part of an interdisciplinary team Palliative care dentistry	1	2		
VIII	Treatment planning and rehabilitation for the geriatric dental patients Evidence based decision making in geriatric practice.	2			
IX	CBL - Treatment planning and rehabilitation for the geriatric dental patients Evidence based decision making in geriatric practice.		3		
X	Midterm Exam	1			

XI- XII	Common geriatric oral conditions and their clinical implications: Root Caries; periodontal diseases; endodontic management of aging patient.	2	2		
XIII	DOPS – Endodontic preparation of aged people teeth models or extracted teeth			4	
XIV-XV	Oral mucosal lesions Xerostomia CBL	2	3		
XVI	Prosthetic considerations for Frail and Functionally dependent Older Adults Medical complexities; Delivery care: Delivery Systems; Portable dentistry; promoting oral health care in Long-term care facilities	2	1		
XVII	Discussion – Geriatric dentistry		3		
XVIII	Mini-Cex				4
XVIII- XXII	Final Exam	2			