

**Prosthodontics - II (Fixed prosthodontics)**

Course title	Code	Semester	Type of course	Course structure and volume (hours)			ECTS
Prosthodontics -II (Fixed prosthodontics )	DEN4001	VII	Mandatory	LECTURE	15	120	4
				Seminar	15		
				Teaching in Stimulatory environment (TSE)	21		
				Teaching in clinical environment (TCE)	10		
				Midterm EX.	1		
				FINAL EX.	2		
				INDEP. WORK	56		
Faculty, the educational program and level of education	School of Dental Medicine, One cycle (5-year duration) Higher Educational Program “Dentistry”						
Staff	<b>Maia Beridze</b> , Assistant Professor <b>Mob.tel:</b> 599 55 54 72 <b>e-mail:</b> <a href="mailto:Maia.Beridze@bauinternational.edu.ge">Maia.Beridze@bauinternational.edu.ge</a>  <b>Rusudan Okropiridze</b> , Invited lecturer <b>Mob.tel:</b> 599 31 31 75 <b>e-mail:</b> <a href="mailto:Rusudan.Okropiridze@bauinternational.edu.ge">Rusudan.Okropiridze@bauinternational.edu.ge</a>  <b>Natalia Kurdadze</b> , Invited teacher Mob.tel: 579 54 26 26 , e.mail: <a href="mailto:Natalia.kurdadze@bauinternational.edu.ge">Natalia.kurdadze@bauinternational.edu.ge</a> Personal one-to-one consultation can be arranged at an agreed upon date and time						
Duration	17 weeks						
Prerequisite	Prosthodontics I (Propaedeutics) DEN3008						
Aim	This course aims to provide advanced knowledge about prosthodontic patients diagnostic and examinations methods, compilation of treatment plans and fixed constructions. Tooth preparation for complete cast crowns, metal-ceramic crowns and principles of tooth preparation of endodontically treated teeth.						
Methods of Teaching/Learning	Interactive lectures; Seminars; TSE; TCE, Mini-CEX, CBL						

<b>Assessment System and Criteria</b>	<p><b>Attendance – the student is obliged to attend 70% of the total number of course hours.</b> The knowledge of the student is evaluated by 100 point-based evaluation system out of which 20 points are allocated for the current activity, 20 for each midterm exam and 40 points for the final exam.</p> <p><b>1. Current activity -40 points, including the following:</b></p> <ul style="list-style-type: none"> <li>• Verbal quiz (6 sessions, 2 points each)-12 points</li> <li>• CBL – 4 points</li> <li>• Practical Activity (10 sessions , 2 points each)- 20 points</li> <li>• Mini- CEX - (2 sessions 2 point each)-4 points</li> </ul> <p><b>Verbal quiz is assessed with the following criteria (2 points each session , total 12 points)</b></p> <p><b>2 Points:</b> The student is well prepared, thoroughly proficient in syllabus material. The answers to the questions are correct, justified and reasoned. The student is thoughtful and well versed in the problem area.</p> <p><b>1 Points:</b> The student knows only part of the syllabus topic, the answers to the questions are correct but incomplete / unreasonable.</p> <p><b>0 Points:</b> The student is completely unprepared. Does not have knowledge about syllabus topic, cannot answer any questions.</p> <p><b>Clinical Case assessment (4 points):</b></p> <p><b>Assessment criteria</b></p> <ol style="list-style-type: none"> <li>1. Ability of case interpretation - 1 point;</li> <li>2. Ability of applying theoretical knowledge - 1 point;</li> <li>4. Ability of correlating normal and pathological conditions - 1 point;</li> <li>5. Ability of drawing conclusions – 1 point.</li> </ol> <p><i>In full compliance- 1 point</i></p> <p><i>Partially compliance-0.5 point</i></p> <p><i>Not compliant- 0 point</i></p> <p><b>Practical Activity (10 sessions , 2 points each)- 20 points</b></p> <ul style="list-style-type: none"> <li>• Performs manipulations perfectly and without errors – 2 points</li> <li>• Performs manipulations partially and without errors – 1 points</li> <li>• Student does not participate in manipulation or performs manipulations with errors – 0 points</li> </ul> <p><b>Mini- CEX – Mini Clinical Evaluation Exercise (4 points):</b></p> <p><b>Assessment criteria</b></p> <ol style="list-style-type: none"> <li>1. History taking/Consultation/Clinical Examination - 1 point;</li> </ol>
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2. Communication - 1 point;  
3. Clinical reasoning - 1 point;  
4. Organization and efficiency - 1 point;  
Poor (0 points)  
Fair (0.5 points)  
Competent (1 point)

## 2. Midterm Exams - 20 points;

Midterm exam is conducted in a combined way:

- Midterm Exam is conducted the middle of the learning course, in a test-based form (Multiple Choice Questions - MCQ). The test includes 35 questions and the value of each is 0.4 point(s). The highest possible score is 14 .
- Short-Answer Questions (SAQs)- The Test includes 6 questions and the value of each is 1 point. The highest possible score is 6 points.

## 3. Final Exam - 40 points

Final Exam is conducted in a combined way:

- Test-based form (MCQ -50 tests with 0.4 point(s) for each question.
- OSCE - The exam will consist of four OSCE stations, the value of each station is 5 points. The highest possible score is 20.

### OSCE methodology & evaluation

1. Selection and adjustment of impression tray;
2. Demonstration of impression taking with alginate impression material
3. Demonstration of tooth preparation for PFM crowns.
4. Fabrication of direct temporary prostheses.

\* Evaluation of each element of the rubric is determined by checklists that are tailored to the specificity of the task to be performed.

### Prerequisite for Final Exam are:

- Prerequisite for Final Exam is the situation when at least 50 % of the current assessment level is achieved (Practical activities in the current assessment require a minimum threshold of 50% as a prerequisite for eligibility to sit for the final examination).
- 70% of learning course 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 . When the total evaluation of the student (current evaluation + midterm exams' evaluations + 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.

If the final evaluation for the Learning Course, after taking the additional exam, (current evaluation + midterm exams evaluation + final exam evaluation) is less than 51%, the learning course is not considered covered and it must be taken again.

In summary, the student is awarded the credit in case he/she accumulates a minimum 51% out of 100%.

	<p><b>Positive scores:</b></p> <p>(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> <p><b>Negative scores:</b></p> <p>(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. 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>
<b>Teaching resources</b>	IMPRESSION MATERIALS, GYPSUM, IMPRESSION TRAYS, ARMAMENTARIUM USED IN PROSTHETIC DENTISTRY AND DENTAL PHANTOM.
<b>The core literature</b>	<ol style="list-style-type: none"> <li>1. <b>Contemporary fixed prosthodontics</b>- Stephen F. Rosenstiel, Martin F. Land, Robert Walter. 6th Ed. 2022.</li> <li>2. <b>Contemporary fixed prosthodontics</b>- Stephen F. Rosenstiel, Martin F. Land, Robert Walter. 5th Ed. 2015.</li> </ol>
<b>The auxiliary literature</b>	<b>DIGITAL RESTORATIVE DENTISTRY: A GUIDE TO MATERIALS, EQUIPMENT AND CLINICAL PROCEDURES.- FALEH TAMIMI, HIROSHI HIRAYAMA.</b>

**Learning Outcomes**

NQF*	COURSE LEARNING OUTCOMES	PROG. LO	Lecture	Seminar	TSE	TCE	Midterm ex.	Final exam	ASSES. METH.
<b>KNOWLEDGE AND AWARENESS</b>	<ul style="list-style-type: none"> <li>Describes the creation and maintenance of an accurate patient history.</li> <li>Describes the steps of gathering anamnesis and filling out a medical card;</li> <li>Describes the purpose of the dental instruments and materials used for tooth preparation and methods of their application.</li> <li>Explains principles of occlusion.</li> <li>Explains principles of tooth preparation.</li> <li>Explains principles of tooth preparation for endodontically treated teeth.</li> <li>Describes steps of tooth preparation for full metal and metal-ceramic crowns.</li> </ul>	2,2 6,3	X	X			X	X	Verbal quiz MCQ Short-Answer Questions (SAQs) CBL
<b>SKILLS</b>	<ul style="list-style-type: none"> <li>Examines patients. Fills examination data and keeps records;</li> <li>Demonstrates all steps of tooth preparation for full metal crown;</li> <li>Demonstrates all steps of tooth preparation for metal-ceramic crown;</li> <li>Selects an appropriate impression technique and performs all steps for impression making;</li> <li>Demonstrates fabrication of interim prostheses.</li> </ul>	2.2. 8,2 9,1 9,3 9,4			X	X		X	Practical Activity OSCE Mini- CEX
<b>RESPONSIBILITY AND AUTONOMY</b>	<ul style="list-style-type: none"> <li>Knows his\her limitations and acts accordingly in ethical and prosthodonticsdentistry clinical principles, in case of necessity request for support and decides to refer to</li> </ul>	4.1. 11.3 11.4.				X		X	OSCE Mini- CEX

	<p>specialists according to clinical and radiographic evaluation.</p> <ul style="list-style-type: none"> <li>• solves problems, thinks critically and makes decisions</li> <li>• works independently</li> </ul>								
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**Learning Course Content**

weeks №	Topics	Lecture (hrs)	Seminar (hrs)	TSE (hrs)	TCE (hrs)
I	<b>Lecture:</b> History Taking and Clinical Examination. <b>Practical activity</b> History Taking (anamnesis), Filling the patients screening questionnaire. Clinical Examination (General, Extra oral, Intraoral, Periodontal, Occlusal, Radiographic Examinations).	2		2	
II	<b>Lecture:</b> Treatment Planning, articulator selection. <b>Practical activity:</b> History Taking (anamnesis). Filling the patients screening questionnaire.	2		2	
III	<b>Lecture:</b> Mouth preparation (soft and hard tissues preparation step-by-step for prosthodontic construction) <b>Seminar:</b> Verbal presentations of studied material.	2	2		
IV	<b>Lecture: Principles of occlusion.</b>  <b>Seminar:</b> Verbal presentations of studied material.	1	2		
V	<b>Lecture:</b> Principles of tooth preparation (Margin adaptation and Margin geometry), advantages and disadvantages of different margin designs. <b>Practical activity:</b> Margin adaptation and Margin geometry – working with dental phantoms.	2		2	
VI	<b>Lecture: The complete cast crowns</b> <b>Seminar:</b> Verbal presentations of studied material. <b>Practical activity:</b> Tooth preparation for complete cast crowns.	2	2		
VII-VIII	<b>Midterm exam</b>	1			
IX	Lecture:The metal-Ceramic restorations. Practical activity: Tooth preparation for metal- ceramic crowns.	1		3	
X	<b>Practical activity:</b> Tooth preparation for complete cast and metal-ceramic crowns. <b>CBL</b>		2	2	

XI	<b>Lecture:</b> Principles of tooth preparation of endodontically treated teeth. <b>Practical activity:</b> Preparation of the Canal, Preparation of Coronal Tissue, Retention Form of Anterior Teeth and Posterior Teeth.	1		3	
XII	<b>Lecture:</b> Tissue management and impression making. Digital restorative dentistry. <b>Seminar:</b> Verbal presentations of studied material. <b>Practical activity:</b> Impression making techniques and use of impression trays.	1	1	2	
XIII	<b>Lecture:</b> Interim fixed restorations (Direct and indirect techniques of temporary prosthesis). <b>Seminar:</b> Verbal presentations of studied material. <b>Practical activity:</b> Fabrication of direct temporary prostheses.	1	1	2	
XIV	<b>Seminar:</b> Verbal presentations of studied material. <b>Practical activity:</b> Working with dental phantoms. (Impression making and fabrication of direct temporary prostheses).		2	3	
XV	Mini- CEX				5
XVI	Mini- CEX				5
XVII	<b>Seminar:</b> CBL		3		
XVIII- XXII WEEK	<b>Final exam</b>	2			