

Prosthodontics - III (Fixed prosthodontics)

Course title	Code	Semester	Type of course	Course structure and volume (hours)			ECTS
Prosthodontics -III (Fixed prosthodontics)	DEN4004	VIII	Mandatory	LECTURE	15	150	5
				Seminar	15		
				Teaching in Stimulatory environment (TSE)	25		
				Teaching in clinical environment (TCE)	18		
				Midterm EX.	1		
				FINAL EX.	2		
				INDEP. WORK	74		
Faculty, the educational program and level of education	School of Dental Medicine, One cycle (5-year duration) Higher Educational Program “Dentistry						
Staff	<p>Maia Beridze, Assistant Professor Mob.tel: 599 55 54 72 e-mail: Maia.Beridze@bauinternational.edu.ge</p> <p>Rusudan Okropiridze, Invited lecturer Mob.tel: 599 31 31 75 e-mail: Rusudan.Okropiridze@bauinternational.edu.ge</p> <p>Natalia Kurdadze, Invited lecturer Mob.tel: 579 54 26 26 , E.mail: Natalia.kurdadze@bauinternaional.edu.ge</p> <p>Nata Ramishvili, invited lecturer nata.ramishvili@bauinternational.edu.ge</p> <p>Personal one-to-one consultation can be arranged at an agreed upon date and time</p>						
Duration	17 weeks						
Prerequisite	Prosthodontics II (Fixed prosthodontics) DEN4001						
Aim	This course aims to provide advanced knowledge about fixed constructions. Tooth preparation for inlay and onlay, all ceramic crowns, fabrication of pontic designs, the color replication process using shade guide, fabrication of temporary crowns.						

Methods of Teaching/Learning	Interactive lectures; Seminars; TSE; TCE, Mini-CEX
Assessment System and Criteria	<p>Attendance – the student is obliged to attend 70% of the total number of course hours. 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>1. Current activity - 40 points, including the following:</p> <ul style="list-style-type: none"> • Verbal quiz (7 sessions, 2 points each)-14 points • Practical Activity (10 sessions, 2 points each)- 20 points • Mini- CEX – (3 sessions,2 point each)- 6 points <p>Verbal quiz is assessed with the following criteria (2 points each session, total 14 points)</p> <p>2 Points: 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>1 Point: The student knows only part of the syllabus topic, the answers to the questions are correct but incomplete / unreasonable.</p> <p>0 Points: The student is completely unprepared. Does not have knowledge about the syllabus topic, cannot answer any questions.</p> <p>Practical Activity (10 sessions, 2 points each)- 20 points</p> <ul style="list-style-type: none"> • Performs manipulations perfectly and without errors – 2 points • Performs manipulations partially and without errors – 1 point • Student does not participate in manipulation or performs manipulations with errors – 0 points <p>Mini- CEX – Mini Clinical Evaluation Exercise (6 points): Assessment criteria</p> <ol style="list-style-type: none"> 1. History taking/Consultation/Clinical Examination - 1 point; 2. Communication - 1 point; 3. clinical reasoning/Determining the need to refer the patient to another specialist- 1 point; 4. Organization and efficiency - 1 point; 5. Color replication process using shade guide; - 1 point; 6. Fabrication of interim restorations. - 1 point; <p>Exercise evaluation criteria: Poor (0 points) Fair (0.5 points) Competent (1 point)</p> <p>2. Midterm Exams - 20 points; Final Exam is conducted in a combined way:</p> <ul style="list-style-type: none"> • Midterm Exam is conducted in 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 and the value of each is 0.4 point(s). The highest possible score is 20.
- 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. Demonstration of impression taking with silicone impression materials.
2. Demonstration of tooth preparation for complete ceramic crown.
3. Fabrication of interim restorations.
4. Demonstration of cementation procedure.

* 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 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.

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 minimum 51% out of 100%.

Positive scores:

- (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;

Negative scores:

(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
Teaching resources	IMPRESSION MATERIALS, GYPSUM, IMPRESSION TRAYS, ARMAMENTARIUM USED IN PROSTHETIC DENTISTRY AND DENTAL PHANTOM.
The core literature	<ol style="list-style-type: none"> 1. Contemporary fixed prosthodontics- Stephen F. Rosenstiel, Martin F. Land, Robert Walter. 6th Ed. 2022. 2. Contemporary fixed prosthodontics- Stephen F. Rosenstiel, Martin F. Land, Robert Walter. 5th Ed. 2015.
The auxiliary literature	The science and art of porcelain laminate veneeres- Galip Gurel 1st edition, 2003.

Learning Outcomes

NQF*	COURSE LEARNING OUTCOMES	PROG. LO	Lecture	Seminar	Teaching in simulation environment	Teaching in clinical environment	Midterm ex.	Final exam	ASSES. METH.
KNOWLEDGE AND AWARENESS	<ul style="list-style-type: none"> Describes principles of tooth preparation for partial veneer crowns, inlays and onlays; Describes principles of tooth preparation for all ceramic crowns; Lists luting agents classifications and Cementation procedures Lists pontic design classifications, advantages, disadvantages, indications, contraindications Describes laboratory steps of metal-ceramic and all ceramic restorations; 	6.3	X	X			X	X	Verbal quiz MCQ Short-Answer Questions (SAQs)
SKILL	<ul style="list-style-type: none"> Prepares tooth for all ceramic crowns, partial veneer crowns, inlays, onlays; partial fixed prostheses Fabricates interim restorations; Demonstrates cementation procedures. Demonstrates communication skills with dental laboratory Demonstrates color replication process using shade guide. 	8,1 8,2 9,1 9,3 9,4			X	X		X	Practical Activity OSCE Mini- CEX

RESPONSIBILITY AND AUTONOMY	<ul style="list-style-type: none"> Knowing his\her limitations and he/she acts accordingly, in case of necessity request for support. 	4.1					X			MINI CEX
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Supplement 1

Learning Course Content

weeks No	Topics	Lecture (hrs)	Seminar (hrs)	TSE (hrs)	TCE (hrs)
I-II	Lecture: Principles of preparation for partial veneer crown, inlay and onlay. Practical Activity: Tooth preparation for inlay and onlay.	2		3	

II	Lecture: All-Ceramic Restorations (Tooth preparation for all ceramic crowns) Practical Activity: Tooth preparation for all ceramic crowns.	2		3	
III	Seminar: Verbal presentations of studied material. Practical Activity: Tooth preparation for all ceramic crown, inlay and onlay.		3	3	
IV	Lecture: Resin-bonded dental prostheses, composite fixed prostheses (Clinical features) Practical Activity: Abutment tooth preparations for resin-bonded fixed dental prostheses.	1		3	
V	Lecture: Luting Agents and Cementation Procedures Seminar: Verbal presentations of studied material. Practical Activity: Demonstration of cementation procedures.	1	2	2	
VI	Lecture: Implant supported fixed prostheses. Seminar: Verbal presentations of studied material. Practical Activity: Demonstrational explanation on study models and demonstrative materials.	1	2	3	
VII-VIII	Midterm exam	1			
IX	Lecture: Pontic design (classification, advantages, disadvantages, indications, contraindications) Seminar: Verbal presentations of studied material. Practical Activity: Fabrication of pontic designs	1	2	2	
X	Lecture: Communication with the dental laboratory Seminar: Verbal presentations of studied material. Practical Activity: Demonstrational explanation on study models and demonstrative materials.	1	2	1	
XI	Lecture: Description of color replication process and esthetics Practical Activity: The color replication process using shade guides.	2		2	
XII	Lecture: Laboratory procedures (Metal-ceramic restorations) Practical Activity: Producing wax patterns.	1		3	
XIII	Lecture: Laboratory procedures (All-ceramic Restorations) Seminar: Verbal presentations of studied material.	2	2		

XIV	Lecture: Postoperative care. Seminar: Verbal presentations of studied material.	1	2		
XV	Mini- CEX				6
XVI	Mini- CEX				6
XVII	Mini- CEX				6
XVIII- XXII WEEK	Final exam	2			