

Therapeutic Dentistry-I
(Propaedeutic)

Course title	Code	Sem ester	Type of course	Course structure and volume (hours)			ECTS
Therapeutic Dentistry I (Propaedeutic)	DEN2006	IV	Mandatory	LECTURE	20	120	4
				SEMINAR	23		
				Teaching in Stimulatory Environment (TSE)	24		
				Teaching in Clinical Environment (TCE)			
				Midterm EX.	1		
				FINAL EX.	2		
				INDEP. WORK	50		
Faculty, the educational program and level of education	School of Dental Medicine One cycle (5-year duration) Higher Educational Program “Dentistry”						
staff	Ana chkhenkeli – Invited Lecturer Mob: 555 01 09 09 e-mail: Ana.Chkhenskeli@bauinternational.edu.ge Tamar Dgebuadze – Invited Lecturer,DD mob: 557 06 01 05 e-mail : tamar.dgebuadze@bauinternational.edu.ge Eter Bukhnikashvili - Assistant Professor Email: eter.bukhnikashvili@bauinternational.edu.ge Personal one-to-one consultation can be arranged at an agreed date and time						
Duration	15 weeks						
Prerequisite	DEN2002						
Aim	<p>This course aims to provide knowledge about the organization of dental office, dental equipment and tools, types of instruments, the techniques and features of their use; Functional group of dental office, its definition and location, examination methods: intraoral and extra oral;</p> <p>The course also aims to provide knowledge about the importance of hand hygiene and personal protection for prevention of cross infection.</p> <p>Also, to provide knowledge about restorative dental materials.</p>						

Methods of Teaching/Learning	Lectures; Seminars; ; TSE
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<p>Assessment System and Criteria</p>	<p>The knowledge of the student is evaluated by 100 score-based evaluation system out of which 40 scores considered for the current assessment, 20 for midterm exam and 40 scores for the final exam.</p> <p>1. Current Assessment (activity) - 40 points, including the following:</p> <ul style="list-style-type: none"> • Oral Quiz (8 sessions, 2 point each) =16 points • TSE-practical activities assessment-6X4=24 points <p>Verbal quiz Method Description: Demonstration of knowledge of theoretical topics, discussion over specific issues in the form of narration or answering questions. Assessment criteria</p> <p>2 Points: The student is well prepared, thoroughly proficient in represented factual 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 Points: The student knows only part of the represented factual material, the answers to the questions are correct but incomplete / unreasonable.</p> <p>0 Points: The student is completely unprepared. Does not have knowledge/prepared a represented factual material, cannot answer any questions.</p> <p>Practical Activities -TSE - assessment criteria:</p> <ul style="list-style-type: none"> • Performs manipulations fully. step by step and without errors – 4 points • Performs manipulations partially and without errors – 3 points • Performs manipulations with some errors. some steps are missing– 2 points • Performs manipulations with lots of errors – 1 point • Cannot perform manipulation on phantom- 0 point <p>• Threshold 50% (minimum 2 points from 4) should be achieved before final exam</p> <p>2. Midterm Exam - 20 points Midterm Exam is conducted in the middle of the learning course.</p> <ul style="list-style-type: none"> • Test-based form MCQs (Multiple Choice Questions -)-20 points <p>MSQ The test includes 50 questions each of 0,4 scores. The highest score equals to 20 points.</p> <p>Prerequisite for Final Exam are:</p> <ul style="list-style-type: none"> • At least 50% (minimum 13 points from 26) of the TSE assessment level is achieved <p>3. Final Exam - 40 points; Final Exam is conducted in a combined way:</p> <ul style="list-style-type: none"> • Test-based form MSQ (MCQ -50 tests with 0.4 point) for each question-20 points • DOPs (4 issues each scored at maximum 5 points) – 20 points <p>Directly observed procedural skills methods Student has to perform following practical assignments:</p>
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	<ol style="list-style-type: none">1. Demonstration of Hand hygiene technique; Usage of protective wear; Demonstration of correct positions of patient, doctor/assistant; - 5 points2. Usage of Dental equipment; Usage of basic instruments for examination and the correct technique of holding the instrument in the hand; - 5 points3. Demonstration of an extra-oral and intraoral examination; - 5 points
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	<p>4. Dental dam placement- 5 points</p> <p>DOPS assessment criteria:</p> <ul style="list-style-type: none"> • Performs assignments fully. step by step and without errors – 5 point • Performs assignments partially and without errors – 4 points • Performs assignments with minor errors – 3 points • Performs assignments with some errors. some steps are missing– 2 points • Performs assignments with lots of errors – 1 point • Cannot perform assignments - 0 point <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 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> <p>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.</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>Maximum course assessment score is 100 points.</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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Teaching resources	Dental equipment and tools; rubber-dam; Dental chair; personal protective wear; phantom
The core literature	<p>Text book of operative dentistry ; Nisha garg (2020)</p> <p>Dental Instruments a Pocket Guide; Linda Bartolomucci Boyd; 7th Edition 2020</p> <p>Essentials of preclinical conservative dentistry; Harpreet Singh, Wolters Kluwer; 2nd Edition 2020</p>
The auxiliary literature	<p>Sturdevant's Art and Science of operative dentistry; Andre V. Ritter; Lee W. Boushell; Ricardo Walter, seventh edition 2019</p> <p>Applied Dental Materials; John F.McCabe, Angus W.G. Walls, 9th Edition 2014</p>

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"> Recognizes the principles of working at a dental office, its equipment and tools; Understands location of the patient; position of the doctor; Location of a physician's assistant in dental office; Knows instruments using in dental practice, their functions; Understands importance and role of hand hygiene and personal protection in cross infection control; Knows examination methods; Describes properties of commonly used restorative dental materials; Understands dental dam system. Its function. 	3.1. 6.6.	X	X			X	X	MCQ; ORAL QUIZ;
SKILL	<ul style="list-style-type: none"> Uses protective wear; Performs an extra-oral and intraoral examination; Uses basic instruments for examination; Demonstrates use of equipment/dental instruments; 	6.3. 8.2.			X			X	Practical Activities DOPS

	<ul style="list-style-type: none"> • Possess the correct technique of holding the instrument in the hand; • Demonstrates Hand hygiene technique; • Demonstrates correct positions of patient, doctor and assistant location. • Demonstrates dental dam placement on phantom; 								
RESPONSIBILITY AND AUTONOMY									

Supplement 1
Learning Course Content

№	Topics	Lecture (hrs)	Seminar (hrs)	TSE (hrs)	TCE (hrs)
I	Introduction to preclinical conservative dentistry-objectives of conservative dentistry, scope and future of conservative dentistry Dental chair and its components Organization of dental offices. Dental equipment. dental chair and its components; types; parts and functions of dental chair. Verbal quiz	2	3		
II	Dental handpiece; evaluation and development of handpiece; types of handpieces Powered cutting equipment; speed ranges; Rotary cutting devices and instruments: handpieces; dental burs- classification of burs. Diamond abrasive instruments-parts, classification; other abrasive instruments Practical activities	2		4	
III-IV	Instruments in conservative dentistry: Classification: Charbonneau's classification, Sturtevant's classification, Black's classification. Materials used for making instruments; Instruments nomenclature; instruments design, instrument formula; applications of various instruments; non- cutting and cutting instruments -Parts of instruments: working end, shank, Handle, Functions, varieties, features; Hand instrument techniques; Hazards of cutting instruments- damage to the dental pulp; damage to intraoral soft tissues, damage to the eyes, ears. inhalation of aerosols Verbal quiz Practical activities	1	2	4	
IV	Dental dam materials Instruments used for dental dam placement: Rubber dam punch Functions/Varieties; Rubber dam clamps/Functions and parts/ Varieties; Rubber dam clamp forceps/ Functions and features/ Varieties; Rubber dam material/ Functions and directions for use/ Varieties. Practical activities	1		4	

V-VI	Amalgam Restorative Instruments Composite Restorative Instruments Matrices Verbal quiz	1	4		
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VII-VIII	Midterm exam	1			
IX	Personal protection equipment : Why we wear personal protective equipment; The role of gloves; Choosing a suitable glove for the task; Managing an allergy to NRL gloves; Managing latex allergies in patients; Masks and when to use them; Protective eyewear and visors; Tunics and uniforms Hand hygiene- Hands as a source of infection; Hands as a source of hospital acquired infection; Hand hygiene and team working; Hand hygiene technique; Hand care and prevention of dermatitis. Dental Chair ;Phantom Head; Typhodont Teeth; Instrument Tray ;Compressed Air-Water Line ;Three Way Syringe ;Cavity Holder Practical activities	1		4	
X	Patient and operator positioning Work-related musculoskeletal disorders; patient positioning; operator positioning; positioning of the dental assistant; four handed dentistry; additional practice methods; equipment layout Practical activities	1		4	
XI	Examination methods: anamnesis, face and oral cavity organs review; clinical examination (percussion; palpation) radiographically methods; Practical activities	1		3	
XII-XIII	Science of Dental materials Dental Cements; Glass ionomer materials Verbal quiz	2	3		
XIV	Dental materials: direct restorative materials Dental amalgam Verbal quiz	2	3		
XV	Dental materials: Dental Composite resins Verbal quiz	2	3		
XVI	Dental materials: Adhesive restorative materials Verbal quiz	2	3		

XVII	SUMMARY	2	3		
	Verbal quiz				
	Final Exam	2			