

**Faculty of Medicine / STOMATOLOGY / RESTORATIVE ODONTOLOGY - PRECLINICS**

<b>Course:</b>	RESTORATIVE ODONTOLOGY - PRECLINICS			
<b>Course ID</b>	<b>Course status</b>	<b>Semester</b>	<b>ECTS credits</b>	<b>Lessons</b> (Lessons+Exercises+Laboratory)
11148	Mandatory	6	8	1+3+0
<b>Programs</b>	STOMATOLOGY			
<b>Prerequisites</b>	No			
<b>Aims</b>	Objectives of the course: Mastering the technique of cavity preparation, protection of the pulpodentine complex and placement of materials for temporary and definitive fillings on models.			
<b>Learning outcomes</b>	After completing the two-semester course and passing the exam in Restorative Odontology-pre-clinic, the Stomatology student should have the following learning outcomes: 1. Know the basic principles of work organization in a dental office. 2. Knows and correctly applies hand and machine instruments during caries removal and cavity preparation. 3. Knows the course of the restorative procedure. 4. Possesses the skill of cavity preparation on artificial teeth. 5. Knows and correctly applies materials for the protection of the pulpodentine complex and materials for temporary and definitive closure of cavities (with the use of matrices and interdental stakes). 6. Can fully apply all learned procedures and actions in clinical conditions.			
<b>Lecturer / Teaching assistant</b>	Assis Prof Mirjana Đuričković Dr Mladen Vuković			
<b>Methodology</b>	Lectures, exercises, seminar, work in small groups, consultations, methodical exercises, seminar papers, presentation in front of the group, method of student practical activities, colloquiums			
<b>Plan and program of work</b>				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to dental pathology and therapy. Caries, definition: etiopathogenesis, clinical picture, caries predilection sites.			
I week exercises	Acquaintance with the basic principles of work, with equipment and instruments. Getting to know the organization and way of conducting practical classes. Workplace and dental machines. Hand instruments and their purpose			
II week lectures	Diagnostic methods for caries detection. Dental examination, instruments and diagnostic aids. Marking teeth			
II week exercises	Mechanical instruments and their use. Position of the therapist during work (in relation to the patient). Direct and indirect work in the mouth. Resting (fixing) the hand when working in the mouth.			
III week lectures	Caries classification: way of spreading through dental tissues; secondary and recurrent caries.			
III week exercises	Class I cavity preparation: Theoretical introduction to practice. Principles of Class I cavity preparation on the biting surface of molars.			
IV week lectures	Dental caries therapy: Analysis of the basic principles of cavity treatment according to Black and clinical review.			
IV week exercises	Class I cavity preparation: on the biting surface of the molar (continued). Principles of Class I cavity preparation on the biting surface of premolars.			
V week lectures	Instruments for the treatment of carious lesions. Rotating and manual instruments. Workplace. Dry radon field.			
V week exercises	Class I cavity preparation on the biting surface of the premolar (continued). Principles of Class I cavity preparation (Foramen coecum).			
VI week lectures	Class I cavity preparation. Cavity preparation on the biting surface of molars and premolars, foramen coecum and foramen molars. Approach, point of support, use of adequate instruments. Nomenclature of cavity walls and corners.			
VI week exercises	Class II cavity preparation Principles of molar preparation.			
VII week lectures	Class II cavity preparation. Preparations on premolars and molars. Restrictive preparation of class II cavities: slot and tunnel preparation			
VII week exercises	Class II cavity preparation. Principles of premolar class II cavity preparation.			
VIII week lectures	MOD cavity preparation on premolars and molars. MOD cavity on a tooth with vital pulp. MOD cavity on depulped tooth.			
VIII week exercises	Preparation of class II cavity type MOD. Principles of MOD cavity preparation on a vital tooth.			

IX week lectures	Class III cavity preparation and tooth separation. Variant "A" class III cavity. A sub-variant of the "A" class III cavity variant. Tooth separation
IX week exercises	Principles of class II cavity preparation of type MOD on a vital tooth.
X week lectures	Preparation of class IV cavities. Principles of preparation of different variants
X week exercises	Class III cavity preparation. Theoretical introduction to the exercise. Principles of class III cavity preparation ("A" variant), sub-variant "A".
XI week lectures	Class IV cavity preparation. Principles of preparation of different variants.
XI week exercises	Cavity preparation for adhesive materials. Deviation from Blacks principles.
XII week lectures	Class V cavity preparation. Principles of cavity preparation of class V carious and non-carious etiology.
XII week exercises	Class III cavity preparation. Theoretical introduction to the exercise. Principles of class III cavity preparation ("A" variant), sub-variant "A".
XIII week lectures	Basic principles of tooth crown restoration
XIII week exercises	Basic gnathological principles in the restoration of molars and premolars
XIV week lectures	Lezije tvrdih zubnih tkiva nekarijesne etiologije
XIV week exercises	Basic gnathological principles in the restoration of molars and premolars
XV week lectures	Cavity preparation for inlay-onlay from precious alloys and cavity preparation for inlay from composites and porcelain
XV week exercises	Preparation for cast fillings, Principles of inlay preparation.
XVI week lectures	Materials in restorative dentistry - basic characteristics
XVI week exercises	Basic principles in working with materials for temporary cavity closure. Placing the material in the cavity
XVII week lectures	Materials for temporary closure of cavities
XVII week exercises	Working principles and installation of protective surfaces - preparation of materials and installation of materials in the cavity
XVIII week lectures	Protective surfaces in restorative dentistry
XVIII week exercises	Principles of working with Glas-ionomer cements (chemical and light polymerization) for restorative fillings, placement of material in the cavity
XIX week lectures	Glas-ionomer cements as materials for substrates and cementation of fixed restorations
XIX week exercises	Principles of working with amalgams - restoration according to basic gnathological requirements, contact point, occlusal morphology, placing the material in the cavity
XX week lectures	Glas-ionomer cements as materials for restorative fillings
XX week exercises	Principles of working with amalgams in restorative dentistry - preparation and protection, placing the material in the cavity
XXI week lectures	Composite materials in restorative dentistry - properties
XXI week exercises	Principles of working with amalgam fillings - matrices and interdental stakes, placing the material in the cavity
XXII week lectures	Composite materials in restorative dentistry - classifications
XXII week exercises	Definitive processing of amalgam fillings
XXIII week lectures	Composite materials - basic principles of application in teeth of the frontal and lateral regions
XXIII week exercises	Composite materials - application technique and polymerization technique - placement of matrices, interdental posts, placement of material in the cavity
XXIV week lectures	Adhesives in restorative odontology - chemical and micromechanical effect of the adhesive bond
XXIV week exercises	Composite materials - basic gnathological requirements for the restoration of molars and premolars - contact point, occlusal morphology, exercises on extracted teeth, placing the material in the cavity
XXV week lectures	Adhesives in restorative dentistry - classification adhesive agents
XXV week exercises	Composite materials - factors affecting the quality of fillings
XXVI week lectures	Application of amalgam in restorative dentistry - basic features and characteristics
XXVI week exercises	Adhesives in dentistry - enamel and dentin conditioning
XXVII week lectures	Application of amalgam in restorative dentistry

XXVII week exercises	Adhesives in dentistry - technique of total etching of enamel and dentin and technique with self-etching primers					
XXVIII week lectures	Materials for cast metal fillings					
XXVIII week exercises	Definitive processing of composite fillings					
XXIX week lectures	Materials for indirect fillings made of aesthetic materials					
XXIX week exercises	Principles and techniques of working with materials for indirect (cast) fillings					
XXX week lectures	Kontrola uspjeha restaurativne terapije I dugotrajnost ispuna					
XXX week exercises	Control of the success of restorative therapy and the longevity of fillings					
<b>Student workload</b>	In the first semester: Classes and final exam: (5.33 hours) x 16 = 85.28 hours Necessary preparations before the beginning of the semester (administration, registration, certification): (5.33 hours) x 2 = 10.66 hours Total workload for the course: 4 x 30 = 120 hours Load structure: 85.28 hours (classes and final exam) + 10.66 hours (preparation) + 24.06 hours (supplementary work) In the II semester: Classes and final exam: (5.33 hours) x 16 = 85.28 hours Necessary preparations before the beginning of the semester (administration, registration, certification): (5.33 hours) x 2 = 10.66 hours Total workload for the course: 4 x 30 = 120 hours Load structure: 85.28 hours (classes and final exam) + 10.66 hours (preparation) + 24.06 hours (supplementary work)					
<b>Per week</b>			<b>Per semester</b>			
<b>8 credits x 40/30=10 hours and 40 minuts</b> 1 sat(a) theoretical classes 0 sat(a) practical classes 3 excercises <b>6 hour(s) i 40 minuts</b> of independent work, including consultations			Classes and final exam: <b>10 hour(s) i 40 minuts x 16 =170 hour(s) i 40 minuts</b> Necessary preparation before the beginning of the semester (administration, registration, certification): <b>10 hour(s) i 40 minuts x 2 =21 hour(s) i 20 minuts</b> Total workload for the subject: <b>8 x 30=240 hour(s)</b> Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) <b>48 hour(s) i 0 minuts</b> Workload structure: <b>170 hour(s) i 40 minuts (courses), 21 hour(s) i 20 minuts (preparation), 48 hour(s) i 0 minuts (additional work)</b>			
<b>Student obligations</b>			Attendance at lectures and exercises is mandatory. During the semester, the student is obliged to fulfill the standard stipulated in the plan and program, which refers to the preparation of cavities on acrylic teeth on the phantom and practical work with dental materials, which are used for the definitive closure of cavities in restorative dentistry.			
<b>Consultations</b>			In agreement with the subject teacher.			
<b>Literature</b>			Živković S. Fundamentals of restorative dentistry. Data Status. Belgrade; in 2019. Živković S. Cavity preparation, practical. Data Status. Belgrade; in 2017. Živković S. Materials in restorative dentistry, practical. Data Status. Belgrade; 2018. Karadžov O, Kztele D, Kuburović D, Marković D. Cavity preparation. University of Belgrade. Griffin. Belgrade; 1999.			
<b>Examination methods</b>			By fulfilling the pre-exam requirements (activity during lectures 6 points, practical classes 30 points, colloquiums 12 points and seminar work 2 points), and passing the exam (test 10 points, practical exam 25 points, oral exam 15 points) a student can achieve a maximum of 100 points , where the pre-examination requirements contribute up to 50 points. A passing grade is obtained if at least 50 points are accumulated cumulatively.			
<b>Special remarks</b>			Mandatory, pre-clinical, narrowly professional			
<b>Comment</b>			no			
<b>Grade:</b>	F	E	D	C	B	A
<b>Number of points</b>	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points