

Faculty of Medicine / STOMATOLOGY / RESTORATIVE ODONTOLOGY I

Course:	RESTORATIVE ODONTOLOGY I			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
11866	Mandatory	8	8	1+3+0
Programs	STOMATOLOGY			
Prerequisites	Passed exam - Restorative odontology - pre-clinic			
Aims	The goal is to train the student to acquire all the necessary knowledge and skills necessary to independently diagnose and compensate damage to the crown of the tooth with adequate therapeutic procedures, materials and instruments of modern restorative odontology.			
Learning outcomes	After completing the two-semester course in Restorative Odontology, the Dentistry student should have the following learning outcomes: 1. Possess communication skills with patients and medical staff. 2. He is able to make a clinical diagnosis of the condition of the pulp based on history, clinical examination and additional tests. 3. He is able to make a plan of the therapeutic procedure. 4. Has the skills to independently perform clinical restoration techniques on carious and non-carious tooth damage. 5. He has the skills to independently perform the clinical phases of work with materials for direct and indirect fillings. 6. Knows, applies and possesses the skills to independently perform clinical techniques for whitening vital and non-vital teeth. 7. Knows possible mistakes and consequences of inadequate application of materials in clinical conditions.			
Lecturer / Teaching assistant	Prof. Dr. Mirjana Đuričković Dr. Nina Marić Dr. Kemal Šahmanović			
Methodology	Lectures, exercises, seminar, work in small groups, consultations, methodical exercises, seminar papers, presentation in front of the group, method of student practical activities, colloquiums			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to clinical practice, basic principles of professional teamwork in the dental office			
I week exercises	Introduction to clinical procedure - workplace and ethical attitude towards the patient			
II week lectures	Preparation for a restorative procedure - work in the doctors office			
II week exercises	Anamnesis and caries diagnosis Reading of orthopantomograms and intraoral X-rays			
III week lectures	Basic phases of work in restorative odontology			
III week exercises	Preparation for restorative procedures - dry working field; anesthetizing teeth			
IV week lectures	Work field: absolutely dry work field, tools and techniques			
IV week exercises	Restorative intervention - preparation and restoration of Class I teeth with amalgam fillings with a base setting			
V week lectures	Basic gnathological principles in restorative odontology			
V week exercises	Restorative intervention - preparation and restoration of class II teeth with amalgam fillings with a base setting			
VI week lectures	The reaction of the pulpodentine complex to the stages of cavity preparation and restoration			
VI week exercises	Additional types of retention in the first cavity restoration for amalgam fillings			
VII week lectures	The reaction of the pulpodentine complex to acute, chronic and deep caries - defense mechanisms			
VII week exercises	Restorative intervention - preparation and restoration of cavities with MOD amalgam fillings with a substrate setting			
VIII week lectures	Deep tooth decay (Caries profunda) - clinical picture, therapy and prognosis indirect and pulp covering, one-session and multi-session, method of execution and means			
VIII week exercises	Preparation and restoration of class III and IV cavities on frontal teeth with composites and adhesive system with and without placement of GJC substrate (adhesive cavity)			
IX week lectures	Direct covering of the pulp and vital amputation (Biopulpotomy); indications, method of execution, pulp wound healing, control of therapy success, medications			
IX week exercises	Preparation of adhesive cavity V and VI class I restoration with composite fillings on frontal and lateral teeth			
X week lectures	Pharmacological principles of action of agents for stimulation of dentinogenesis; pulp regeneration - new aspects of the first method; future therapeutic possibilities			

X week exercises	Preparation of adhesive cavity I and II class on lateral teeth and setting of composite filling
XI week lectures	Minimally invasive procedures in restorative dentistry during the preparation and placement of materials for permanent fillings
XI week exercises	Preparation and restoration of multi-surface cavities on lateral teeth using adhesive systems, GJC substrate (open and closed "sandwich technique") and composite fillings
XII week lectures	Application of matrices in restorative dentistry
XII week exercises	One-session and multi-session treatment of deep caries
XIII week lectures	Principles and methods of retention in complex multi-surface cavities for different restorative techniques and materials
XIII week exercises	Restorative intervention - preparation and restoration of teeth with indirect fillings
XIV week lectures	Traumatic tooth damage. Types of tooth injuries, etiology, symptomatology, diagnosis and differential diagnosis
XIV week exercises	Whitening of vital teeth
XV week lectures	Pain of the pulpodentine complex: mechanisms of occurrence, clinical manifestations, diagnosis and differential diagnosis
XV week exercises	Trauma therapy
XVI week lectures	Materials for definitive cavity restoration: application of principles in clinical work depending on the type of material
XVI week exercises	Preparation and restoration of single surface cavities with amalgam fillings
XVII week lectures	Clinical application of amalgam fillings in restorative odontology - application, course of the first phase of restoration
XVII week exercises	Preparation and restoration of multi-surface cavities with amalgam fillings
XVIII week lectures	Clinical application of amalgam - problems and failures
XVIII week exercises	Preparation and restoration of class III cavities with adhesive systems and composite fillings
XIX week lectures	Clinical application of composite fillings in restorative odontology - application, course of the first phase of restoration in frontal teeth
XIX week exercises	Preparation and restoration of class III cavities with adhesive systems and composite fillings with the application of a GJC substrate
XX week lectures	Clinical application of composite fillings in restorative odontology - application, course of the first phase of restoration in lateral teeth
XX week exercises	Preparation and restoration of complex class IV cavities with composite filling
XXI week lectures	Adhesives in dentistry - clinical division and application technique
XXI week exercises	Restoration of the V hair cavity on the frontal and lateral teeth
XXII week lectures	Adhesives in dentistry - factors that influence the quality of the bond between fillings and hard dental tissues
XXII week exercises	Preparation and restoration of single-surface cavities on lateral teeth with composite fillings
XXIII week lectures	Clinical application of GJC cement - as a base and liner under fillings
XXIII week exercises	Preparation and restoration of multi-surface cavities on lateral teeth using adhesive systems, GJC substrate (open and closed "sandwich technique") and composite fillings
XXIV week lectures	Clinical application of GJC as restorative materials
XXIV week exercises	Restoration of complex cavities using adhesive composite systems and additional types of retention (grooves and retention points)
XXV week lectures	Clinical procedure for the application of cast fillings
XXV week exercises	Restorative procedure using GJC fillings
XXVI week lectures	Restoration of endodontically treated teeth - clinical procedure
XXVI week exercises	Restorative procedure for deep caries and preservation of vitality by indirect covering of the pulp - monitoring the success of the therapy
XXVII week lectures	Tooth discoloration, etiology and possibility of elimination
XXVII week exercises	Restorative procedure for deep caries and preservation of vitality by direct covering of the pulp - monitoring the success of the therapy
XXVIII week lectures	Bleaching of vital teeth

XXVIII week exercises	Restorative intervention - preparation and restoration of teeth with indirect fillings					
XXIX week lectures	Aesthetic moments and monitoring the success of restorations on frontal and lateral teeth: criteria, methods and means					
XXIX week exercises	Whitening of vital teeth					
XXX week lectures	Terapija trauma, izrada direktne kompozitne fasete					
XXX week exercises	Trauma therapy, making a direct composite veneer					
Student workload	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)					
Per week			Per semester			
8 credits x 40/30=10 hours and 40 minuts 1 sat(a) theoretical classes 0 sat(a) practical classes 3 excercises 6 hour(s) i 40 minuts of independent work, including consultations			Classes and final exam: 10 hour(s) i 40 minuts x 16 =170 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 10 hour(s) i 40 minuts x 2 =21 hour(s) i 20 minuts Total workload for the subject: 8 x 30=240 hour(s) 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) 48 hour(s) i 0 minuts Workload structure: 170 hour(s) i 40 minuts (courses), 21 hour(s) i 20 minuts (preparation), 48 hour(s) i 0 minuts (additional work)			
Student obligations			ttendance at lectures and exercises is mandatory. In all exercises, the student is obliged to work with patients. Otherwise, the exercise is lost. During the semester, the student must fulfill the norm provided by the plan and program, which refers to clinical work with patients. The standard includes: placed 12 aesthetic 6 amalgam fillings on permanent teeth, 4 MOD fillings and 5 indirect and direct pulp coverings during both semesters. Otherwise, the student loses the right to take the exam.			
Consultations			In agreement with the subject teacher.			
Literature			Živković S. Basics of restorative dentistry. DataStatus. Belgrade; 2009. Mjor I. Pulp and dentin biology in restorative dentistry (translation). Data Status. Belgrade, 2008. Kidd E. Basics of dental caries. Datastatus. Belgrade; 2010.			
Examination methods			By fulfilling the pre-examination requirements (activity in lectures 6 points, 2 cloquiums of 7 points each is 14 points, practical teaching 30 points - total 50 points) and passing the exam (test -10 points, practical exam 30 points and oral exam 10 points - total 50 points) a student can achieve a maximum of 100 points, whereby pre-examination obligations contribute up to 50 points. A passing grade is obtained if at least 50 points are accumulated cumulatively.			
Special remarks			Specifics that need to be emphasized for the subject: Mandatory, clinical, narrowly professional; Clinical exercises are performed in groups of 5 students.			
Comment			no			
Grade:	F	E	D	C	B	A
Number of points	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