

Study program : DENTISTRY				
Type and level of studies: Integrated academic studies				
Course unit: DENTAL MATERIALS				
Teacher in charge : dr Gordana P. Radić, associate professor				
Language of instruction : ENGLISH				
ECTS: 5				
Prerequisites: completed previous semester				
Semester: SUMMER SEMESTER				
Course unit objective : Acquiring basic knowledge about the structure, properties and behavior of dental materials				
Learning outcomes of Course unit: <ul style="list-style-type: none"> • Knowledge about chemical properties of dental materials • Knowledge about physical properties of dental materials and clinical application of materials in dentistry • Knowledge about clinical application of materials in dentistry 				
Course unit contents				
<i>Theoretical classes</i> <i>Introduction to the dental materials; Physical and chemical properties of dental materials; Corrosion of dental materials; Properties of alloys, ceramic and composite materials; Biocompatibility of dental materials; Dental materials for conservative care and endodontics (cements, glass-ionomer cements, amalgams, adhesive systems temporary filling materials); Prosthetic dental materials (printing dental materials; Building dental materials in prosthetic – dental alloys, polymer materials, ceramic materials and additional dental materials.</i>				
<i>Practical classes</i> <i>Biocompatibility of dental materials; Terms: medical devices, dental material, biomaterial, toxicity, biocompatibility; Tests for evaluation of biocompatibility of dental materials; Important chemical elements for dental materials; Chemical bonds; Binding of dental materials (neutralization, chelation, polymerization).</i>				
Literature <ul style="list-style-type: none"> • McCabe JF. Applied Dental Materials. Ninth Edition. W.G. Walls; Blackwell Publishing Ltd.; 2008. • Anusavice KJ, Shen C, Rawls HR. Phillips' Science of Dental Materials. Twelfth edition. Elsevier; 2013. 				
Number of active teaching hours				Other classes
Lectures: 30	Practice: 15	Other forms of classes:	Independent work: 150	
Teaching methods: Lectures, practice in a clinic, clinical problems solving				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	30	oral examination	70	
practical classes/tests		written examination		
Seminars/homework			
Project				
Other				

Grading system		
Grade	No. of points	Description
10	91-100	Excellent
9	81 – 91	Exceptionally good
8	71 – 81	Very good
7	61 – 71	Good
6	51 – 61	Passing
5	< 51	Failing

(Table 5.2) Course unit description