Faculty of Medicine / STOMATOLOGY / PRECLINICAL ORTHOPEDICS JAWS

Course:	PRECLINICAL ORTHOPEDICS JAWS			
Course ID	**Course status**	**Semester**	**ECTS credits**	**Lessons** (Lessons+Exercises+Laboratory)
13248	Mandatory	10	2	1+1+0
Programs	STOMATOLOGY			
Prerequisites	There are no conditions			
Aims	The goal of the Preclinical Orthopedics of the Jaw course is to educate students about the growth and development of the craniofacial system and dentition, preclinical orthodontic procedures, and the design and construction of mobile and fixed orthodontic appliances.			
Learning outcomes	Acquired knowledge: definition and field of orthodontics, materials and procedures for taking impressions in orthodontics, materials and procedures for making orthodontic models, anomalies of tooth position, monomaxillary device: active plate according to Schwartz, fixator as an auxiliary device, bimaxillary appliance: Bionator according to Balters, preventive and interceptive orthodontics, basic elements of fixed appliances. Acquired skills: taking orthodontic impressions, taking a record of habitual occlusion in wax, casting the model and processing it according to orthodontic rules, recognizing anomalies in the position of the teeth on the model, making a teardrop hook for the active plate, making a labial arch for the active plate, making and processing the base of the active plate using the technique spraying (cold polymerization), making a bite template in wax, taking a construction bite, control of the made bimaxillary appliance, making a retainer using the pressing technique (Biostar)			
Lecturer / Teaching assistant	Assis Prof Jasminka Anđelić Dr Snežana Ražnatović Dr Jelena Pipović			
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 orthodontics. Classification of malocclusions			
I week exercises	Printing processes and models			
II week lectures	Etiology of malocclusion			
II week exercises	Etiology of malocclusion			
III week lectures	Concepts of growth and development			
III week exercises	Analysis of plaster models in three dimensions			
IV week lectures	Prenatal growth and development of the craniofacial system			
IV week exercises	Basics of X-ray cephalometry			
V week lectures	Postnatal growth and development of the craniofacial system			
V week exercises	Cephalometric monitoring of growth			
VI week lectures	Assessment of craniofacial typology			
VI week exercises	Growth and development of mixed and permanent dentition			
VII week lectures	Differences between deciduous and permanent teeth on models			
VII week exercises	Orthodontic appliances			
VIII week lectures	Assessment of dental and skeletal age			
VIII week exercises	Plate appliances			
IX week lectures	Plate devices - production techniques and recognition			
IX week exercises	Functional appliances			
X week lectures	Functional devices - Recognition and creation of bite wall and construction bite			
X week exercises	Functional devices - Recognition and creation of bite wall and construction bite			
XI week lectures	Fixed appliances			
XI week exercises	Devices made by soldering and welding - demonstration, recognition of devices			

XII week lectures	Keys to ideal occlusion
XII week exercises	Vacuum-made thermoplastic appliances - demonstration, recognition of the appliance
XIII week lectures	Edgewise appliances
XIII week exercises	Edgewise appliances - appliance setting
XIV week lectures	Preventive devices and procedures
XIV week exercises	Preventive devices
XV week lectures	Interceptive devices and procedures
XV week exercises	Interceptive devices
Student workload	Classes and final exam: (2.66 hours) x 16 = 42.56 hours Necessary preparations before the beginning of the semester (administration, registration, certification): (2.66 hours) x 2 = 5.32 hours

Per week	**Per semester**
2 credits x 40/30=2 hours and 40 minuts 1 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises **0 hour(s) i 40 minuts** of independent work, including consultations	Classes and final exam: **2 hour(s) i 40 minuts x 16 =42 hour(s) i 40 minuts** Necessary preparation before the beginning of the semester (administration, registration, certification): **2 hour(s) i 40 minuts x 2 =5 hour(s) i 20 minuts** Total workload for the subject: **2 x 30=60 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) **12 hour(s) i 0 minuts** Workload structure: **42 hour(s) i 40 minuts (cources), 5 hour(s) i 20 minuts (preparation), 12 hour(s) i 0 minuts (additional work)**
Student obligations	Analysis of plaster models
Consultations	In agreement with the subject teacher.
Literature	Jakšić N., Šćepan I., Glišić B.: Orthodontic diagnostics - practical for basic studies, II edition, Belgrade, 2004. Marković M. (editor): Orthodontics, medical book, Belgrade - Zagreb, 1989.
Examination methods	Colloquium = 1 x 20 points 2 control tests from practical exercises = 10 + 10 = 20 Seminar work = 10 points Final exam = 50 points. A passing grade is obtained if a cumulative minimum of 50 points is collected
Special remarks	no
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