

Faculty of Medicine / STOMATOLOGY / GNATHOLOGY

Course:	GNATHOLOGY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
5934	Mandatory	4	8	1+3+0
Programs	STOMATOLOGY			
Prerequisites	Dental anatomy and other subjects with a year of study			
Aims	The student should know and acquire basic notions in the field of occlusion. Anatomical and physiological determinants control jaw movement and the reference position of the mandible. To know the material, type, purpose and possibilities of the articulator and facial arches and the ability to work with them. To introduce disruption in jaw joints and meet the diagnosis and therapy of CMD (reversible and irreversible). Empower to perform clinical examination of the orofacial complex patient and functional analysis of the orofacial complex. Empower the analysis of intermaxillary relations and contact relation with the tooth positions and movements of the mandible.			
Learning outcomes	After completing one semester in subjects Gnathology, dental student should possess the following learning outcomes: 1. Knows the structure and function of the orofacial system with the emphasis on the structure and function TM joints. 2. Knows the anatomical determinants, physiological regulation of jaw movements, types of motion and the reference position of the mandible. 3. Know the characteristics of a physiologically optimal occlusion and knows the dysfunction of this system. Know the concepts of occlusion and the basis of reversible and irreversible therapy. 4. Know the structure, type, purpose and possibilities of the articulator and facial arches and is capable of working with the articulator of secondary value and transfer face-bow. 5. He is capable of taking a history and performing a clinical examination of the face and jaw of the patient. 6. Able to analyze the relationships between the jaws and analysis of the relationship of teeth in the basic positions of the mandible and in eccentric movements. 7. Integrate the acquired knowledge and skills which should enable monitoring of teaching and acquiring the necessary knowledge of clinical dental-prosthetic.			
Lecturer / Teaching assistant	Doc. dr Biljana Milošević, Associates dr Zorica Popović, dr Vesna Kisić			
Methodology	Lectures, exercises, colloquia, seminars			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to gnathology and orofacial system. The connection between skulls and mandible - anatomical specificity. The connection between skulls and mandible - physiological specificity. The muscles of orofacial region.			
I week exercises	Exercises follow the lectures.			
II week lectures	Functional anatomy of the natural dentition. The movements of the lower jaw-core and marginal.			
II week exercises	Exercises follow the lectures.			
III week lectures	Functional movements of the lower jaw-chewing, swallowing. The reference position of the lower jaw.			
III week exercises	Exercises follow the lectures.			
IV week lectures	Anatomical determinants of jaw movement. Physiological regulation of jaw movement.			
IV week exercises	Exercises follow the lectures.			
V week lectures	Characteristics physiologically optimal occlusion. Articulators-able simulation of jaw movements			
V week exercises	Exercises follow the lectures.			
VI week lectures	Transposition of models of the upper jaw in the articulator - simulation the hinge movement. Transposition of mandible model in the articulator.			
VI week exercises	Exercises follow the lectures.			
VII week lectures	Simulation of the eccentric motion in partially adjustable articulators. Simulation of the eccentric motion in high-adjustable articulators.			
VII week exercises	Exercises follow the lectures.			
VIII week lectures	Characteristics unphysiologic activities orofacial system. CMD.			
VIII week exercises	Exercises follow the lectures.			
IX week lectures	Functional analysis of the orofacial complex. Analysis interjaw relations- first lecture			

IX week exercises	Exercises follow the lectures.
X week lectures	Analysis interjaw relationship-second lecture. Evaluation of the state of occlusal complex
X week exercises	Exercises follow the lectures.
XI week lectures	Analysis interjaw relationship-second lecture. Evaluation of the state of occlusal complex.
XI week exercises	Exercises follow the lectures.
XII week lectures	Analysis of the tooth contact relationship in the central relation position and intercuspal position and during eccentric movements of the lower jaw. Reversible the occlusal therapy .
XII week exercises	Exercises follow the lectures.
XIII week lectures	The concept balanced occlusion. The concept mutually protected occlusion
XIII week exercises	Exercises follow the lectures.
XIV week lectures	Irreversible the occlusal therapy. Determinants of occlusal morphology and reconstruction of occlusion.
XIV week exercises	Exercises follow the lectures.
XV week lectures	Etiologija, pathology and treatment of tooth abrasion.
XV week exercises	Exercises follow the lectures.
XVI week lectures	Upper and lower jaw prints with irritable hydrocolloids in selected patients with natural dentition spilling of working models
XVI week exercises	Craniomandibular dysfunctions
XVII week lectures	Transferring the model of the upper jaw to the articulator using a cheek arch, demonstrating on the patient
XVII week exercises	Anamnesis in dental practice, functional analysis of the orofacial complex , significance , methods
XVIII week lectures	Transferring the model of the upper jaw to the articulator using a cheek arch, the work of students on patients
XVIII week exercises	Evaluation of the state of the occlusal complex
XIX week lectures	Evluation of the condition of the occlusal complex in selected patients , the use of dental records
XIX week exercises	Analysis of the contact relationship of the nteeth in the intercuspal, central position and in eccentric movements of the lower jaw , occlusal markers
XX week lectures	Analysis of the contact relationship of teeth with the help of occlusal markers demonstration on the patient
XX week exercises	Analysis of inter-forked relationships, part I
XXI week lectures	Analysis of the contact relationship of teeth with the help of occlusal markers , independent work of students
XXI week exercises	Analysis of inter-forked relationships, Part II
XXII week lectures	Analysis and registration of interjacular relationships, demonstration on the patient Finding and registering the central position of the lower jaw by methods, demonstrating
XXII week exercises	Occlusal therapy, concept, modalities, Reversible OT, Irreversible OT
XXIII week lectures	Finding and registering the central position of the lower jaw by various methods, independent work of students on patients, awarding of seminar papers
XXIII week exercises	Choice of occlusion model during irreversible occlusal therapy - the concept of bilaterally balanced occlusion
XXIV week lectures	Finding the position of physiological rest of the mandible, determining the vertical dimension of the occlusion, demonstrating on the patient , analysis of the position of the orientation occlusion plane
XXIV week exercises	The concept of mutually spawned occlusion
XXV week lectures	Finding the position of physiological rest of the mandible, determination of the vertical dimension of the occlusion, analysis of the position of the occlusal plane., independent work of students on patients
XXV week exercises	Determinates of occlusal morphology in occlusal reconstruction - planning of contact relationship of teeth in the final occlusal position of the mandible
XXVI week lectures	Working with adjustable articulators, registering eccentric positions of the lower jaw, adjusting the leading elements on adjustable articulators, demonstrating, exhibiting seminar papers
XXVI week exercises	Determinants of occlusal morphology in lower jaw movements
XXVII week lectures	Working with adjustable articulators, registering eccentric positions of the lower jaw, adjusting the

	leading elements on adjustable articulators, independent work of students					
XXVII week exercises	Irreversible occlusal therapy – selective grinding, indications, methods, instruments					
XXVIII week lectures	Analysis of mandible guidance in eccentric movements, finding occlusal disturbances, demonstrating, presenting seminar papers					
XXVIII week exercises	Other forms of irreversible occlusal therapy, conservative, prosthetic, orthodontic, orthognatic surgery, case report					
XXIX week lectures	Preparation of stabilization Michigan splint , demonstration on the patient and in the articulator, presentation of seminar papers					
XXIX week exercises	Clinical significance of gnatological procedures in reconstructive dentistry					
XXX week lectures						
XXX week exercises						
Student workload	weekly 6 credits x 40/30 equal to 8 hours Structure: 3 lectures 3 exercises 1 hour seminar 1 hour of individual work In the course of the semester Teaching and the final exam (8h x 16 equals 128h) Necessary preparation (before semester enrollment, etc ...) 2h x 8 equals 16 Total load: 6 x 30 equals 180h Additional work 36h The structure of the load 128 + 16 + 16 equals 180h					
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	The presence of theoretical and practical training is mandatory.					
Consultations	The teacher and associates held consultations with students once a week, in the period that is defined at the beginning of the semester.					
Literature	Prof. dr Darinka Stanišić Sinobad „Osnovi gnatologile“ Prof. dr Darinka Stanišić Sinobad, prof. dr Slobodan Dodić „Praktikum iz osnova gnatologije“					
Examination methods	Colloquium 1 - 1 x 15 points Colloquium 2 - 1 x 20 points Control tests of practical exercises 5 + 5 Total: 10 Seminar - 4 points Passing grade gets the cumulative gather min 50 points					
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