

## FIȘA DISCIPLINEI

### 1. Date despre program

1.1 Instituția de învățământ superior	<b>UNIVERSITY OF MEDICINE AND PHARMACY „VICTOR BABEȘ” TIMIȘOARA</b>
1.2 Facultatea	<b>FACULTY OF DENTAL MEDICINE</b>
1.3 Departamentul	3
1.4 Domeniul de studii de..... <sup>1)</sup>	License
1.5 Ciclul de studii <sup>2)</sup>	License
1.6 Programul de studii/ Calificarea	<b>MD</b>

### 2. Date despre disciplină

2.1. Denumirea disciplinei	<b>OCCLUSION AND TEMPORO-MANDIBULAR DISORDERS (OCCLUSIOLOGY)</b>						
2.2 Titularul activităților de curs	Conf.dr. Corina Mărcăuțeanu						
2.3 Titularul activităților de laborator	Asist Univ. Suplinitor drd dr. Mitroi Felicia Elena						
2.4 Anul de studiu	<b>3</b>	2.5 Semestrul	<b>5</b>	2.6 Tipul de evaluare	<b>Colloquy</b>	2.7 Regimul disciplinei	Conținut <sup>3)</sup>
						Obligativitate <sup>3)</sup>	<b>DS</b>
							<b>DI</b>

### 3. Timpul total estimat (ore pe semestru al activităților didactice)

3.1 Număr de ore pe săptămână	<b>5</b>	3.2 din care: curs	<b>2</b>	3.3 laborator	<b>3</b>
3.4 Total ore din planul de învățământ	<b>70</b>	3.5 din care: curs	<b>28</b>	3.6 laborator	<b>42</b>
Distribuția fondului de timp					ore
Studiul după manual, suport de curs, bibliografie și notițe					11
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					22
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri					18
Tutoriat					
Examinări					4
Alte activități					
<b>3.7 Total ore studiu individual</b>	<b>51</b>				
<b>3.8 Total ore pe semestru</b>	<b>125</b>				
<b>3.9 Numărul de credite<sup>5)</sup></b>	<b>5</b>				

### 4. Precondiții (acolo unde este cazul)

4.1 de curriculum	Anatomy
4.2 de competențe	They are not necessary

### 5. Condiții (acolo unde este cazul)

5.1 de desfășurare a cursului	<ul style="list-style-type: none"> <li>Mobile phones will be closed during classes; telephone conversations are not tolerated during the course; the students are not allowed to leave the lecture room for personal phone calls;</li> <li>The students' delay at the course will not be tolerated, as it proves to be disruptive to the educational process;</li> <li>Presence at the course is mandatory, with a maximum of 30% absences accepted.</li> </ul>
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	<ul style="list-style-type: none"> <li>Mobile phones will be closed during the labs; phone calls during the lab or students leaving the lab room to take personal telephone calls will not be tolerated;</li> <li>The students' delay at the lab will not be tolerated, as it proves to be disruptive to the educational process;</li> <li>Presence at the labs is mandatory, with a maximum of 15% absences being accepted;</li> <li>The data for the seminars (attended from the lecture themes) and for the final exam are established by the lecturer in agreement with the</li> </ul>

	<p>students;</p> <ul style="list-style-type: none"> <li>• The data for the on-going examinations and for the practical exam are established by the lecturer in agreement with the students;</li> <li>• The practical exam will be held in the last week of the semester, from the themes of the labs;</li> <li>• Passing of the practical exam is mandatory in order to pass the Occlusiology colloquium.</li> </ul>
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#### 6. Competențe specifice acumulate

Competențe Profesionale	<ol style="list-style-type: none"> <li>1. Development of a medical language that is useful in specialized practice.</li> <li>2. Understanding of the concepts of normal functionality of the masticatory system, of occlusal and temporo-mandibular disorders, of the etiology and the mechanisms responsible for the occurrence and evolution of pathological conditions.</li> <li>3. Development of the ability to examine the different components of the masticatory system and to formulate a positive and differential diagnosis for the studied diseases.</li> <li>4. Acquiring basic therapeutic principles for bruxism, occlusal disorders and various forms of temporo-mandibular disorders.</li> </ol>
Competențe transversale	<ol style="list-style-type: none"> <li>1. Identification of the roles and the responsibilities in a multidisciplinary team and apply effective relationship and work techniques within the team in order to facilitate future interdisciplinary collaborations.</li> <li>2. Efficient use of information, communication and assisted training resources (Internet portals, specialized software applications, databases, on-line courses, etc.) both in Romanian and in an international language.</li> <li>3. Identification of the objectives to be achieved, of the available resources, of the conditions for their completion, of the working stages, of the working stages, of the related implementation deadlines and of the related risks.</li> <li>4. Initiation of scientific research activities in the field of occlusiology and various forms of parafunction and disorders.</li> </ol>

#### 7. Obiectivele disciplinei (reieșind din competențele specifice acumulate)

7.1 Obiectivul general al disciplinei	Understanding of the theoretical and practical issues needed for the occlusal analysis and diagnosis, and also for the basic diagnosis and treatment of occlusal disorders and temporo-mandibular disorders.
7.2 Obiectivele specifice	<p>Examination of the masticatory and cervical muscles</p> <p>Examination of the temporomandibular joints</p> <p>Examination of the mandibular movements</p> <p>Current occlusal concepts</p> <p>General and specific occlusal analysis in the patient's oral cavity</p> <p>Specific occlusal analysis of study models mounted in the simulator by using the facebow</p> <p>Particularities of the determination and recording of the intermaxillary relationships in the dentate, partially edentulous and totally edentulous patient</p> <p>Diagnosis of occlusal disorders</p> <p>Diagnosis of arthrogenic, myogenic or mixed temporomandibular disorders</p> <p>Principles and technique of reversible and irreversible occlusal therapy (occlusal splints, selective grinding, occlusal equilibration of direct and indirect restorations)</p> <p>Diagnosis and therapy of bruxism</p> <p>Diagnosis and therapy of dental wear</p>

#### 8. Conținuturi

8.1 Curs	Metode de predare	Număr de ore	Observații
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1. Importance of occlusion in dental medicine.	LECTURE + DEBATE + CASE PRESENTATIONS	2	
2. Static occlusion types: maximum intercuspation		2	
3. Static occlusion types: centric relation occlusion, myocentric occlusion.		2	
4. The neuromuscular system involved in the posture and movements of the mandible: masticatory muscles and neck muscles, neuromuscular activity of the masticatory system.		2	
5. Morphology and biomechanics of the temporo-mandibular joint in terms of occlusion.		2	
6. Fundamental jaw relationships: mandibular postural position, centric relation, occlusal relationships.		2	
7. Features of the jaw relationships recording in the dentate, partially edentulous and completely edentulous patient.		2	
8. Mandibular kinematics: anterior anatomic determinant (dental) and posterior (temporo-mandibular joint), the functional determinant.		2	
9. Current occlusal concepts: functional occlusion (with mutual protection), implant-protected occlusion, general balanced occlusion.		2	
10.Bruxism and non-carious dental hard tissue loss (tooth wear).		2	
11.Temporo-mandibular disorders: definition, classification, epidemiology, etiology, masticatory muscles disorders.		2	
12.Temporo-mandibular disorders: temporo-mandibular joint disorders.		2	
13.Temporo-mandibular disorders: diagnostic and therapeutic principles.		2	
14.Occlusal therapy: selective grinding (principles and technique), occlusal splint (types, indications, contraindications, mechanisms of action).		2	
<b>Bibliografie obligatorie:</b> 1. Mărcăuțeanu Corina, Stoica Eniko. Occlusiology. Lecture handbook for the III <sup>rd</sup> year students 2018.			
<b>Bibliografie facultativă:</b> 1. Okeson J.P. Management of Temporomandibular Disorders and Occlusion. 7th Edition 2012			

8.2 Seminar/ Laborator/stagiu/ proiect	Metode de predare-învățare	Număr de ore	Observații
1. Introduction. Presentation of the internal order regulation and of the work safety measures.	THEORETICAL PRESENTATION+ DISCUSSIONS + CASE PRESENTATIONS + PRACTICAL IMPLEMENTATION OF STUDY OBJECTIVES ON TEACHING MATERIAL, SUPERVISED BY THE ASSISTANT.	3	
2. Occlusal morphology of teeth and dental arches. Parameters of occlusion.		3	
3. Centric stops: classification, description, importance. Types of occlusal contacts: functional and non-functional.		3	
4. Clinical and paraclinical examination of jaw and neck muscles: inspection and postural analysis, palpation, functional manipulation, electromyography.		3	
5. Clinical and paraclinical examination of the temporo-mandibular joint and of the mandibular movements: palpation and functional manipulation of the temporo-mandibular joint, examination of the mandibular and cervical spine movements, temporo-mandibular joint imaging, recording of condylar movements and electrognathography.		3	
6. Mounting of study casts on a semi-adaptable simulator for occlusal analysis: fabrication of accurate study casts.		3	
7. Mounting of study casts on a semi-adaptable simulator for occlusal analysis: mounting of the maxillary study cast on a semi-adaptable simulator using a facebow, interocclusal registration with the condyles placed in centric relation and mounting of the mandibular study cast on the semi-adaptable simulator, programming of the posterior slope of the articular tubercle.		3	
8. Clinical examination of dental occlusion: general		3	
9. Clinical examination of dental occlusion: specific		3	
10. Anterior guidance parameters and their influence on the occlusal morphology of posterior teeth.		3	
11. Selective grinding: objectives, indications, anticipation of		3	

selective grinding results, occlusal analysis and selective grinding on study casts mounted in the simulator.			
12.Principles and technique of intraoral selective grinding.		3	
13.Determination and correction of the occlusal plane by means of the Pankey - Mann - Schuyler technique, using an individualized Broderick / Broadrick "flag".		3	
14.Fabrication technique of a muscle relaxation occlusal appliance of a thermo-vacuumformed sheet and selfcuring acrylic resin. Modern technique for the fabrication of a muscle relaxation occlusal appliance by means of the Eclipse system (Dentsply).		3	
<b>Bibliografie obligatorie:</b> 1. Mărcăuțeanu Corina, Stoica Eniko. Occlusiology. Lab handbook for the III <sup>rd</sup> year students 2018.  <b>Bibliografie facultativă:</b> 1. Okeson J.P. Management of Temporomandibular Disorders and Occlusion. 7th Edition 2012			

**9. Coroborarea conținuturilor disciplinei cu așteptările reprezentanților comunităților epistemice, asociațiilor profesionale și angajatori reprezentativi din domeniul aferent programului**

<p>The student acquires basic theoretical and practical knowledge of static and dynamic occlusal contacts, as well as of the various forms of masticatory system disorders, that he / she will later face in the clinic and practice. Any therapeutic maneuver performed in the patient's oral cavity changes the occlusion in one way or another. Knowing the current occlusal principles creates the premises for performing quality restorations, at the level of natural teeth and /or dental implants. The use of the facebow and of the simulator is indispensable in the context of modern prosthetic treatment. At the Occlusology department, the student acquires the necessary informations and skills in order to acquire later, in other years of study, more complex knowledge, in line with the current requirements of the labor market in the health care sector, meeting European educational and professional standards. It should be noted that the dentistry profession is regulated at EU level, including minimum training standards, which are considered in the curriculum content.</p>
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**10. Evaluare**

Tip activitate	10.1 Criterii de evaluare	10.2 Metode de evaluare	10.3 Pondere din nota finală
10.4 Curs	<i>Cunoștințe pentru nota 5: 50% +1 of the total number of the grid points</i> <i>Cunoștințe pentru nota 10: 95% of the total number of the grid points</i>	<i>Continuous assessment:</i> 1 seminar consisting of a multiple choice test with 15 questions from the course information taught by the date of the seminar.  <i>Final evaluation:</i> multiple choice test with 50 questions.	50%

10.5 Laborator/Stagiu	<i>Cunoștințe pentru nota 5: 50% of the information on the drawn subject</i> <i>Cunoștințe pentru nota 10: 95% of the information on the drawn subject</i>	<i>Continuous evaluation:</i> on-going checks, consisting of multiple choice tests of 9 questions from the subject of the current week;  <i>Final evaluation:</i> practical oral exam consisting in extracting a subject and its practical execution. <b>Acquiring mark 5 at the practical exam is mandatory for the passing of the Occlusology colloquium.</b>	10% participation during the semester   40%
10.6 Standard minim de performanță			
Knowledge of the theoretical and practical notions necessary for the analysis and diagnosis of occlusion, as well as of the basic diagnostic and therapeutic aspects regarding occlusal disorders and temporomandibular disorders			

Data completării 02.11.2018	Semnătura titularului de curs Conf.dr. Corina Mărcăuțeanu	Semnătura titularului de laborator/stagiu Asist Univ. Suplinitor drd dr. Mitroi Felicia Elena
Semnătura șefului de disciplină Conf.dr. Corina Mărcăuțeanu		
Data avizării în departament 02.11.2018	Semnătura directorului de departament Conf. Dr. Luminița Nica	