

## FIȘA DISCIPLINEI

### 1. Date despre program

1.1 Instituția de învățământ superior	<b>UNIVERSITATEA DE MEDICINA ȘI FARMACIE "VICTOR BABEȘ" TIMIȘOARA</b>
1.2 Facultatea	<b>FACULTATEA DE MEDICINĂ DENTARĂ</b>
1.3 Departamentul	I MD
1.4 Domeniul de studii de..... <sup>1)</sup>	Health + Sectorial Regulations in the European Union
1.5 Ciclul de studii <sup>2)</sup>	Diploma
1.6 Programul de studii/ Calificarea	<b>Dental Medicine</b>

### 2. Date despre disciplină

2.1. Denumirea disciplinei	<b>Periodontology</b>							
2.2 Titularul activităților de curs	Prof.Dr.Dr.med.dent.Stefan-Ioan Stratul							
2.3 Titularul activităților de laborator	Asist.univ.suplinitor Dr. Simina Boia Sef lucrari dr.Dan Onisei							
2.4 Anul de studiu	<b>VI</b>	2.5 Semestrul	<b>I+II</b>	2.6 Tipul de evaluare	<b>EXAM</b>	2.7 Regimul disciplinei	Conținut <sup>3)</sup>	<b>DS</b>
							Obligativitate <sup>3)</sup>	<b>DI</b>

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

3.1 Număr de ore pe săptămână	5,5	3.2 din care: curs	<b>2</b>	3.3 stagii clinice	<b>3,5</b>
3.4 Total ore din planul de învățământ	<b>154</b>	3.5 din care: curs	<b>56</b>	3.6 stagii clinice	<b>98</b>
Distribuția fondului de timp					ore
Studiul după manual, suport de curs, bibliografie și notițe					60
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					28
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri					25
Tutoriat					
Examinări					4
Alte activități					
<b>3.7 Total ore studiu individual</b>	<b>117</b> <i>11 credite (2018-2019) x 25, minus 56, minus 98, minus 4 (examinari 2+2)=117</i>				
<b>3.8 Total ore pe an</b>	<b>271</b>				
<b>3.9 Numărul de credite<sup>5)</sup></b>	<b>11</b>				

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

4.1 de curriculum	Anatomy, Biochemistry, Oral Microbiology, Oral Histology, Oral Physiology , Oral Radiology
4.2 de competențe	Not applicable

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

5.1 de desfășurare a cursului	<ul style="list-style-type: none"> <li>The course is taught in English</li> <li>Mobile telephones will be switched off or kept on silence during the class; students cannot leave the room to take phone calls;</li> <li>Students arriving after the teacher will not be allowed to attend the class;</li> <li>Attendance to the course is mandatory; a certain number of absences will be tolerated, according to the Regulations of the University</li> <li>The class room must be provided with laptop, projector, interactive board.</li> </ul>
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	<ul style="list-style-type: none"> <li>The treatment rooms will be provided with computers and projector.</li> <li>Mobile phones will be kept on silent mode</li> <li>Clinical classes will be in Romanian, as patients are Romanian and speak Romanian. The clinical teachers communicate with the student in English, except in the presence of the patient, where the clinical teachers will assist the student in communicating with the patient in Romanian, in order to provide the best cooperation with the patient.</li> <li>Students arriving after the teacher will not be allowed to attend the class.</li> <li>Students will be dressed according to the surgical specific of the Department.</li> <li>Attendance to clinical classes is mandatory; a certain number of absences will be tolerated, according to the Regulations of the University, based on documented justification; clinical classes cannot be repeated in order to catch up, because of the clinical content of the Discipline of Periodontology, ommitted parts in the treatment</li> </ul>

	<p>sequence of patients with periodontal disease cannot be repeated; absences will be considered as recovered when the minimal clinical standards of the class will be completed.</p> <ul style="list-style-type: none"> <li>• To enter the final practical examination, students will have to complete a well-defined clinical standard.</li> <li>• The place and time of the final written and practical examinations will be decided by the teacher in consultation with the students, according to the Regulations of the University. No individual delays of the written examination will be accepted, unless serious, well-documented justifications will be provided.</li> <li>• The practical examination will be in English, during the last week of the 2nd semester. Promotion of the practical examination is mandatory for promotion of final exam of Periodontology.</li> </ul>
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## 6. Competențe specifice acumulate

<b>Competențe Profesionale</b>	<ol style="list-style-type: none"> <li>1. Understanding of the anatomy, microstructure and functioning of the healthy and diseased periodontium</li> <li>2. Understanding and knowing of the pathogenesis of periodontal diseases.</li> <li>3. Knowing the clinical forms of periodontal disease and correlation with individual aspects related to the presence of systemic involvement and periodontal risk factors.</li> <li>4. Establishing of correct periodontal diagnosis.</li> <li>5. Establishing of the periodontal treatment plan and its integration within the general plan of oral rehabilitation.</li> <li>6. Knowing essential aspects related to specific initial, corrective and maintenance periodontal therapy.</li> <li>7. Knowing the prophylaxis of periodontitis, aiming at retaining natural teeth for as long as possible.</li> </ol>
<b>Competențe transversale</b>	<ol style="list-style-type: none"> <li>1. Identification of the roles and responsibilities in a pluridisciplinary team; employing of relationing techniques and efficient team working, to facilitate future interdisciplinary collaborations within the dental specialty and with other medical specialties.</li> <li>2. Efficient use of informational, communication and assisted professional formation resources (Internet portals, software applications, databases, online courses etc.) available in all international languages.</li> <li>3. Identifications of the objectives, of the resources, of the requirements to complete the objectives, of the working phases, of the timeline, of the deadlines and of the risks.</li> <li>4. Initiation of research activities in Periodontology and in connection with other dental and medical specialties.</li> </ol>

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

7.1 Obiectivul general al disciplinei	To teach fundamental notions of Periodontology
7.2 Obiectivele specifice	<ol style="list-style-type: none"> <li>1. Understanding by the student of the anatomy, microstructure and functioning of the healthy and diseased periodontium</li> <li>2. Understanding and knowing of the pathogenesis of periodontal diseases.</li> <li>3. Knowing the clinical forms of periodontal disease and correlation with individual aspects related to the presence of systemic involvement and periodontal risk factors.</li> <li>4. Establishing of correct periodontal diagnosis.</li> <li>5. Establishing of the periodontal treatment plan and its integration within the general plan of oral rehabilitation.</li> <li>6. Knowing essential aspects related to specific initial, corrective and maintenance periodontal therapy.</li> <li>7. Knowing the prophylaxis of periodontitis, aiming at retaining natural teeth for as long as possible.</li> </ol>

## 8. Conținuturi

8.1 class	Metode de predare	Număr de ore	Observații
1. The structure of periodontal tissues	<p>Interactive lectures supported by ppt presentations, according to the course topics, including lots of suggestive clinical images.</p> <p>Each lecture begins with the course objectives and the course outline, and end with a summary and conclusions.</p>	2	The textbooks included in the mandatory reference list are distributed free to the students as PDF files.
2. The subgingival dental plaque		2	
3. Bacterial interactions in the dental biofilm		2	
4. Bacterial specificity in periodontal disease		2	
5. Pathogenesis of gingivitis		2	The textbooks included in the optional reference list are distributed free to the students as PDF
6. Pathogenesis of periodontitis. Prerequisites for attachment loss		2	
7. Periodontal clinical examination. Examination of the gingiva & local risk factors		2	

8. Periodontal clinical examination. Clinical signs of attachment loss		2	files, on request.		
9. Imagistic aspects of periodontal disease		2			
10. Microbiologic examination of the periodontium		2			
11. Classification of periodontal diseases. Gingival diseases		2			
12. Classification of periodontal diseases. Periodontitis		2			
13. Classification of periodontal diseases. Necrotizing periodontal diseases. Periodontal abscesses. Acute herpetic gingivo-stomatitis.		2			
14. Classification of periodontal diseases. Gingival enlargements.		2			
15. General risk factors in periodontal disease. Genetic factors, smoking, oral hygiene, stress.		2			
16. Systemic risk factors in periodontal disease. Diabetes mellitus.		2			
17. Systemic risk factors in periodontal disease. Cardiovascular diseases.		2			
18. The periodontal treatment plan. Supragingival scaling.		2			
19. Scaling and root planing. Rationale, protocols, techniques for power driven root instrumentation.		2			
20. Scaling and root planing. Techniques for manual root instrumentation.		2			
21. Healing of the periodontal wound.		2			
22. Regenerative periodontal therapy		2			
23. Provisional restorations for periodontal treatment		2			
24. Splinting techniques for mobile periodontally-involved teeth		2			
25. The use of local adjunctive antimicrobials in periodontal therapy. Antiseptic substances.		2			
26. The use of local adjunctive antimicrobials in periodontal therapy. Antibiotics.		2			
27. Systemic antibiotherapy of Periodontitis		2			
28. Sharpening and maintenance of periodontal instruments		2			
<b>Bibliografie obligatorie:</b>  1. Alexandra Roman, Andrada Soanca. Clinical Manual of Periodontology. Editura Medicala Universitara Iuliu Hatieganu Cluj-Napoca, 2011. 2. Andrada Soanca, Alexandra Roman, Stefan Adrian Petrutiu. Concepts in Periodontal Therapy. Editura Medicala Universitara Iuliu Hatieganu Cluj-Napoca, 2013.  .... <sup>6)</sup>  <b>Bibliografie facultativă:</b> 1. Newman MG, Takei HH, Klokkevold PR, Carranza FA: Carranza's Clinical Periodontology, 12th Ed., Elsevier, W.B.Saunders Company, 2015. 2. Jan Lindhe, Niklaus P. Lang, editors. Clinical Periodontology and Implant Dentistry, 6th Edition, Wiley Blackwell, 2016.					
8.2 Seminar/ Laborator/stagiu/ proiect		Metode de predare-învățare		Număr de ore	Observații
1. The thorough documentation of a periodontal case.		SHORT INTERACTIVE PRESENTATIONS DEBATES PRACTICAL HANDS-ON EXERCISES		3	In performing clinical procedures on patients, students

2.Periodontal examination. The periodontal quick check.	<p><b>SURGICAL DEMONSTRATIONS</b></p> <p><b>CASE PRESENTATIONS</b></p> <p>15-30' ppt presentations and educational presentations and movies on CDs</p> <p>Interactive discussions of imagistic data on radiographs, DVT etc.</p> <p>Assistance to fill-in the online periodontal chart and the online multifactorial risk diagram</p> <p>Assistance in taking professional clinical pictures for case documentation</p> <p>Practical exercises on cast models and on animal tissue models</p> <p>Live demonstrations of clinical procedures by the clinical teacher and by the course director</p> <p>Case presentations by clinical teachers, resident doctors, PhD students, other students.</p>	3	<p>will be assisted by clinical teachers and resident doctors assigned to the case.</p> <p>For patients undergoing clinical demonstrative procedures performed by the clinical teacher or by the resident doctor, students will effectively participate in the preparation for surgery of the patient, will assist to the surgery and will effectively participate in the post-op care.</p>
3.Periodontal complex diagnosis and periodontal indices. The online periodontal chart.		3	
4.The periodontal treatment plan.		3	
5 – 6.Oral hygiene instruction, including adjunctive hygiene measures. Patient motivation. Modification of periodontal risk factors.		3+3	
7.Professional cleaning of the periodontal patient. Treatment of plaque gingivitis.		3	
8-9.Non-surgical protocols of root instrumentation in periodontitis. The FMD protocol and its alternatives.		3	
10-11.Instruments and techniques for manual root instrumentation.		3+3	
12.Power-driven devices and techniques for root instrumentation.		3	
14.Direct and indirect methods of splinting for periodontally-involved teeth.		3	
15.The periodontal macro-surgical and micro-surgical armamentarium.		4	
16.Devices and techniques for electrosurgical soft tissue procedures.		4	
17-18.Surgical techniques for periodontal pockets reduction.		4+4	
19-20.Osseous resective surgery.		4	
21.Regenerative surgical techniques for infrabony defects.		4	
22.Regenerative surgical techniques for mucogingival defects.		4	
23.Regenerative surgical techniques and materials for root coverage. Plastic periodontal surgery.		4	
24.The non-surgical therapy of periimplant mucositis.		4	
25.The surgical therapy of periimplantitis: resective and regenerative procedures.		4	

26.Pre-prosthetic surgical techniques. Crown lengthening procedures.		4	
27.The multifactorial diagram to assess the periodontal risk. Planing of periodontal maintenance (supportive) therapy.		4	
28.Sharpening and maintenance of periodontal instruments.		4	
<b>Bibliografie obligatorie:</b>  1. Alexandra Roman, Andrada Soanca. Clinical Manual of Periodontology. Editura Medicala Universitara Iuliu Hatieganu Cluj-Napoca, 2011. 2. Andrada Soanca, Alexandra Roman, Stefan Adrian Petrutiu. Concepts in Periodontal Therapy. Editura Medicala Universitara Iuliu Hatieganu Cluj-Napoca, 2013.  <b>Bibliografie facultativă:</b>  1. Jill S. Nield-Gehrig. Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation. Seventh Edition, Wolters Kluwer, Lippincott Williams & Williams, 2008.			

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

With the systematic study of Periodontology – one of the core disciplines of Dental Medicine – the student will have to be able to correctly examine the periodontium, to establish the diagnosis and the periodontal and periimplant treatment plan, to recognize and to document the periodontal risk factors, to establish initial and corrective treatment measures (surgical, prosthodontic, orthodontic, implantar), to establish the periodontal prognosis with or without (correct) treatment, to set the frequency and the content of periodontal maintenance therapy. The content of the programs of Periodontology is adapted to the rich pathology existing in Romanian population of all ages, and is regulated at European level by undergraduate and postgraduate standards issued by the European Federation of Periodontology (EFP), standards that were included in the undergraduate curricula of the School of Dental Medicine of the Victor Babes University of Medicine and Pharmacy of Timisoara. Currently, the undergraduate and postgraduate study of Periodontology in Timisoara is correlated with the curricula of the similar Disciplines from the Universities of Cluj, Iasi and Craiova, having in sight the study of Periodontology in German and Italian Dental Schools. The content of the curriculum for the English-language section of the Timisoara Dental School reflects both European and non-European modern tendencies, as both groups of countries benefit of dentists trained in Romania. Both dental GPs with good periodontal knowledge and specialists of Periodontology are increasingly requested in multidisciplinary dental practices (private clinics), both in Romania and abroad.
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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:</i> 50% of the MQ test correctly answered, according to the Examination Regulations of the University  <i>Cunoștințe pentru nota 10:</i> 90% of the MQ form correctly answered, according to the Examination Regulations of the University	Final evaluation: MQ test with 100 MQs.	50%
10.5 Laborator/Stagiu	<i>Cunoștințe pentru nota 5:</i> Clinical standard completed, weak interest manifested during the clinical classes.	Final evaluation (practical examination):  Clinical standards of periodontal cases and periodontal clinical procedures completed; standards are announced at	40%

	<i>Cunoștințe pentru nota 10:</i> Clinical standard completed or even exceeded, strong interest manifested during clinical classes and interest for research.	the beginning of the academic year; un-completed clinical standards preclude the candidate to participate in the practical examination.  Periodical colloquial verification of the interest for the study of Periodontology during clinical classes, noted with a mark by the clinical teacher.  Practical examination: - Direct presentations of a case randomly selected, in presence of the patient - Presentation of case treated by the candidate during the academic year.	
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#### 10.6 Standard minim de performanță

Completion of the clinical standards, recognizing the basic forms of periodontal disease (gingivitis, periodontitis), establishing a simple periodontal treatment plan, elementary recommendations of active periodontal therapy, designing a simplified plan of maintenance therapy.

Data completării 01.11.2018	Semnătura titularului de curs Prof.Dr.Dr.med.dent. Stefan-Ioan Stratul	Semnătura titularului de laborator/stagiu 1. Dan Onisei 2. Simina Boia
Semnătura șefului de disciplină Prof.Dr.Dr.med.dent.Stefan-Ioan Stratul		
Data avizării în departament	Semnătura directorului de departament Prof. Dr. ....	

#### Notă:

- 1) Domeniul de studii - *se alege una din variantele:* Licență/ Masterat/ Doctorat (**se completează conform cu Nomenclatorul domeniilor și al specializărilor/ programelor de studii universitare în vigoare**) ;
- 2) Ciclu de studii - *se alege una din variantele:* Licență/ Master/ Doctorat;
- 3) Regimul disciplinei (conținut) - *se alege una din variantele:* **DF** (disciplină fundamentală)/ **DD** (disciplină din domeniu)/ **DS** (disciplină de specialitate)/ **DC** (disciplină complementară) - *pentru nivelul de licență*; **DAP** (disciplină de aprofundare)/ **DSI** (disciplină de sinteză)/ **DCA** (disciplină de cunoaștere avansată) - *pentru nivelul de masterat*;
- 4) Regimul disciplinei (obligativitate) - *se alege una din variantele:* **DI** (disciplină obligatorie)/ **DO** (disciplină opțională)/ **DFac** (disciplină facultativă);
- 5) Un credit este echivalent cu 25 – 30 de ore de studiu (activități didactice și studiu individual).
- 6) Pentru specializările și/sau disciplinele a căror tematică se regăsește în bibliografia de rezidențiat, aceasta devine obligatorie.