

FIȘA DISCIPLINEI

1. Date despre program

1.1 Instituția de învățământ superior	UNIVERSITATEA DE MEDICINA ȘI FARMACIE "VICTOR BABEȘ" TIMIȘOARA
1.2 Facultatea	FACULTATEA DE MEDICINĂ DENTARĂ
1.3 Departamentul	III Medicină Dentară
1.4 Domeniul de studii de ¹⁾	Licență
1.5 Ciclul de studii ²⁾	Licență
1.6 Programul de studii/ Calificarea	MD Engleză

2. Date despre disciplină

2.1. Denumirea disciplinei	ENDODONȚIE II							
2.2 Titularul activităților de curs	Conf. Dr. LUMINIȚA NICA, titular							
2.3 Titularul activităților de laborator	Asist. univ. Drd. Boscornea Pușcu Simona (suplinitor)							
2.4 Anul de studiu	V	2.5 Semestrul	II	2.6 Tipul de evaluare	Examen	2.7 Regimul disciplinei	Conținut ³⁾	DS
							Obligativitate ³⁾	DI

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

3.1 Număr de ore pe săptămână	11	3.2 din care: curs	3	3.3 laborator	8
3.4 Total ore din planul de învățământ	154	3.5 din care: curs	42	3.6 laborator	112
Distribuția fondului de timp					ore
Studiul după manual, suport de curs, bibliografie și notițe					52
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					20
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri					28
Tutoriat					
Examinări					4
Alte activități					
3.7 Total ore studiu individual	104				
3.8 Total ore pe semestru	258				
3.9 Numărul de credite⁵⁾	10				

4. Precondiții (acolo unde este cazul)

4.1 de curriculum	Endodontics I
4.2 de competențe	Basic knowledges of endodontic instruments and treatment techniques

5. Condiții (acolo unde este cazul)

5.1 de desfășurare a cursului	<p>Delay to lectures will not be tolerated as it proves disruptive to the educational process;</p> <ul style="list-style-type: none"> Lecture presence is mandatory, 30% of absences will be accepted
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	<ul style="list-style-type: none"> Delay to laboratory will not be tolerated as it proves disruptive to the educational process; Laboratory presence is mandatory, 15% of absences will be accepted. Absences can be recovered in session with the permission of the group assistant, only after paying the corresponding tax Final exam and laboratory exam dates will be set by the head of the department with the consultancy of the students Practical exam will be held in the last week of the semester in accordance with laboratory curricula Passing the laboratory exam is mandatory for passing the final exam.

6. Competențe specifice acumulate

Competențe Profesionale	<ol style="list-style-type: none"> 1. Diagnosis of necrotic teeth and of lesions of endodontic origin 2. Instrumentation of the root canal with rotary NiTi instruments 3. Warm vertical techniques in filling the cleaned and shaped root canal system 4. How to perform an endodontic orthograde (non-surgical) retreatment 5. Management of emergencies in Endodontics 6. Management of traumatic injuries with endodontic involvement
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Competențe transversale	1. Efficient use of communication resources (Internet, online lectures, data bases)
	2. Identification of objectives, available resources, working steps as well as possible risks
	3. Initiation of research activities in Endodontics

7. Obiectivele disciplinei (reieșind din competențele specifice acumulate)

7.1 Obiectivul general al disciplinei	Students will achieve advanced theoretical and practical knowledges regarding endodontic therapy (rotary instrumentation with NiTi instruments and warm-techniques of root canal obturation) and basic knowledges regarding endodontic non-surgical and surgical retreatment, or management of the accidents in endodontics (perforation repair, removal of separated instruments)
7.2 Obiectivele specifice	1. Knowledges of endodontal-periodontal relationship (endo-perio lesions) 2. Understanding the ethiological aspects of the periapical diseases and of the importance of the endodontic treatment in healing of lesions of endodontic origin 3. Detailed principles and practices of rotary instrumentation 4. Tridimensional filling of the root canal system (the continuous wave of condensation technique) 5. Basic knowledges of non-surgical retreatment applied in practice, and of surgical retreatment (only theoretical) 6. Restorability concepts of endodontically treated teeth (restoration with fiber posts, ferrule effect) 7. Management of emergencies and trauma in endodontics 8. Treatment of necrotic teeth with incomplete apical development 9. Bleaching techniques of non-vital teeth

8. Conținuturi

8.1 Curs	Metode de predare	Număr de ore	Observații
1. Simple and complicated pulpal necrosis. Anatomy and histology of the periapical space. Endodontic-periodontic relations.	<ul style="list-style-type: none"> • Oral lectures, interactive Powerpoint presentations • Powerpoint presentations with suggestive images and tables • Continuos updates of the lecture material in accordance with the newest devices and materials used in endodontics • Clear statment of educational objectives before each lecture 	3	Bibliografia obligatorie și facultativă este distribuită studenților în format pdf.
2. Acute and cronical apical periodontitis. Definition, classification, simptomatology, positive and differential diagnosis.		3	
3. Ethiology of pulpal necrosis. The role of microbiological factors in lesions of endodontic origin.		3	
4. The endodontic treatment of teeth with pulpal necrosis and apical periodontitis. The role of cleaning-shaping in healing of the endodontic origin periapical lesions.		3	
5. The crown-down technique in endodontic treatment. Properties of NiTi alloy. Classification of rotary and reciprocating instruments for root canal negotiation and preparation.		3	
6. Modern rotary instrumentation techniques using rotary and reciprocating instruments (ProTaper Universal and Gold system, Reciproc and Reciproc blue system, ProTaper Next, Wave One and Wave One Gold system).		3	
7. Irrigation protocols for non-vital teeth. Calcium hydroxide as an interim medication of the root canal.		3	
8. Warm techniques for root canal obturation: classic vertical compaction, continuous wave of condensation,		3	

thermomechanical compaction, the Thermafil technique			
9. Adhesive root canal filling materials. The monoblock concept Resilon as a root canal filling materials.		3	
10. Treatment of necrotic teeth with large apical foramina. Apexification. Bioceramic materials-calcium silicate materials (ProRoot MTA). Repair of perforations using MTA.		3	
11. Restoration of non-vital teeth. Types of fiber posts and luting cement. Adhesion to root canal dentin. The ferrule effect and restorability concept		3	
12. Endodontic orthograde retreatment. Indications, principles, instruments and technique. Role of endodontic operating microscope in retreatment.		3	
13. Endodontic retrograde (surgical) retreatment. Indications, instruments and techniques.		3	
14. Bleaching of non-vital teeth. Endo-perio combined lesions. Management of emergencies and trauma in endodontics.		3	

Bibliografie obligatorie:

1. Discipline course in pdf format
2. Luminița Nica- Obturația endodontică-principii și tehnici, Editura Eurostampa, Timișoara, 2011
3. Luminița Nica- Atlas de instrumente endodontice rotative din aliaje de nichel-titan, Editura Victor Babeș, Timișoara, 2018

Bibliografie facultativă:

1. Richard Cohen, Stephen Burns – Pathways of the pulp, Tenth Edition, Mosby Co, 2011
2. Richard Cohen, Stephen Burns – Pathways of the pulp, 11th Edition, Mosby Co, 2016
3. Arnaldo Castellucci – Endodontics vol I și II, Il Tridente, Firenze, 2008
4. Donald Arens, Alan Guskin- Practical Lessons in Endodontic Treatment, Quintessence, 2009
5. Simon, WJ Pertot- Clinical Success in endodontic retreatment, Quintessence International, 2009
6. Bun San Chong- Managing Endodontic Failure in Practice, Quintessence Publishing, 2004
7. AAE standards in endodontic treatment and retreatment

8.2 Stagi	Metode de predare-învățare	Număr de ore	Observații
1. Examination of patients with pulpal necrosis and apical periodontitis. Diagnostic tests. Establishment of diagnosis. Elaboration of treatment plan.	Powerpoint presentations, live demonstrations on plastic blocks and patients, treatment on extracted teeth and patients, multiple choice tests, discussions, clinical case reports, endodontic treatment on mono- and pluriradicular teeth performed with rotary instruments or hybrid approach.	8	
2. Crown down techniques in treatment of necrotic teeth. Rotary instruments and instrumentation with rotary NiTi instruments.		8	
3. Warm vertical techniques in obturation of the root canal system. Thermomechanical compaction and warm		8	

vertical compaction, continuous wave of condensation. Instruments, materials and techniques step by step.			
4. Emergency treatment of an acute apical periodontitis or alveolar abscess. Endodontic drainage.		8	
5. Treatment of a monoradicular tooth with pulpal necrosis or apical periodontitis using rotary instruments on patient.		8	
6. Treatment of a pluriradicular tooth with pulpal necrosis or apical periodontitis using rotary instruments on patient.		8	
7. Restoration of non-vital teeth using fiber posts. Technique, materials, clinical case.		8	
8. Bleaching of non-vital teeth. Demonstration or clinical case.		8	
9. Irrigation protocols for teeth with necrotic pulp. Calcium hydroxide as intermar dressing.		8	
10. Obturation of teeth with large apical foramina. Demonstration on patient and exercises on extracted teeth or plastic blocks.		8	
11. Endodontic retreatment (removal of gutta-percha or pastes). Instruments, solvents, techniques. Clinical case.		8	
12. Endodontic orthograde retreatment. Removal of metallic posts, fiber posts, separated instruments. Demonstration or		8	

Data completării 18.10.2018	Semnătura titularului de curs Conf. univ. Dr. Luminița Nica	Semnătura titularului de laborator/stagiu Asist. univ. Drd. Boscornea Pușcu Simona (suplinitor)
Semnătura șefului de disciplină Conf. univ. Dr. Luminița Nica		
Data avizării în departament 22.10.2018	Semnătura directorului de departament Conf. univ. Dr. Luminița Nica	

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) Ciclul 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.