

FIȘA DISCIPLINEI

1. Date despre program

1.1 Instituția de învățământ superior	UNIVERSITATEA DE MEDICINA SI 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	ENDODONTIE I							
2.2 Titularul activităților de curs	Conf. Dr. LUMINIȚA NICA, titular (plata cu ora)							
2.3 Titularul activităților de laborator	Asist. univ. Dr. Marinescu Adrian Asist. univ. Dr. Velea Oana Asist. univ. Drd. Bretean Ioana Delia (suplinitor)							
2.4 Anul de studiu	IV	2.5 Semestrul	1	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 (1 examen practic, 1 examen final)					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	Dental morphology, Ergonomy, Oro-dental Diagnosis, Anesthesiology, Restorative dentistry
4.2 de competențe	Practical and theoretical skills in patient examination, anesthesia, rubber dam isolation, cavity preparation, restoration with composites

5. Condiții (acolo unde este cazul)

5.1 de desfășurare a cursului	Delay to lectures will not be tolerated as it proves disruptive to the educational process; 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 the 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. patients examination with endodontic problems 2. establishment of endodontic diagnostic, elaboration of the best treatment plan, diferential diagnosis 3. recognition of the complex endodontic morphology and evaluation of the case complexity (difficulty of the case) 4. practical skills in anesthesia in endodontics, including complementary tehnniques 5. rubber dam isolation of the working field in endodontic 6. access cavity on all types of teeth 7. working length determination with different methods and maintaining the working length during the endodontic treatment 8. the step-beck technique of root canal preparation (different tapers) 9. irrigation protocols on vital and non-vital teeth 10. lateral compaction as root canal obturation method 11. direct restoration of endodontic treated teeth (with/without fiber posts) 12. success rate and evaluation of the quality of the endodontic treatment 13. vital pulpal therapy (direct pulp capping, pulpotomy)
Competențe transversale	<ol style="list-style-type: none"> 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 basic theoretical and practical knowledges regarding endodontic therapy
7.2 Obiectivele specifice	<ol style="list-style-type: none"> 1. Knowledges about the endodontic therapy, its indications and importance for the health status of the patient 2. Establishment of endodontic diagnosis, ellaboration of a complex treatment plan for endodontic therapy 3. Knowledges about cleaning, shaping and obturation of the endodontic system. 4. Two endodontic treatments performed on extracted teeth and on patients. 5. Restoration of endodontically treated teeth 6. Success evaluation in endodontics. Radiographical evaluation of the treated cases.

8. Conținuturi

8.1 Curs	Metode de predare	Nr. de ore	Observații
1. Endodontics: definition of endodontic therapy, the history and evolution of endodontics; general knowledges about endodontic treatment. The histollogy and phisiology of human dental pulp. The anatomy of the endodontic system.	<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. Inflammation of dental pulp. Diagnostic tests in endodontics. Classification and simptomatology of pulpal diseases.		3	
3. Etiological factors in inflammation of the dental pulp. General and local factors.		3	
4. Management of anxiety and pain in endodontics. Dental pulp inervation. Anesthesia in endodontics.		3	
5. Rubber dam isolation in endodontics. Endodontic pretreatment.		3	
6. Endodontic instruments.		3	
7. Access cavity in endodontics. Principles, steps and instruments.		3	
8. Indication and contraindication of endodontic therapy. Basic steps in root canal treatment.			
9. Cleaning and shaping of the root canal system. Instrumentation techniques. Basic motions of endodontic instruments.		3	

10. Apico-coronal instrumentation techniques. The stepback technique.		3	
11. Endodontic irrigants and techniques. Calcium hydroxide as root canal medication.		3	
12. Endodontic instruments and materials for root canal obturation. The lateral compaction of gutta-percha.		3	
13. Accidents and complications of the root canal treatment. Evaluation of success in endodontics. Restoration of endodontically treated teeth		3	
14. Vital pulp therapy of incompletely developed teeth. Apexogenesis. Biomaterials in endodontics.		3	

Bibliografie obligatorie:

1. Discipline course (pdf format)
2. Luminița Nica- Obturația endodontică-principii și tehnici, Editura Eurostampa, Timișoara, 2011

Bibliografie facultativă:

1. Richard Cohen, Stephen Burns – Pathways of the pulp, 10th 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. American Association of Endodontics Standards in Endodontic Therapy

8.2. Stagiu	Metode de predare-învățare	Număr de ore	Observații
1. Basic and special instruments for endodontic use	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.	8	
2. Morphology of the endodontic system on different teeth. Radiographic exam in endodontology. Access cavity on upper teeth (incisors, canines, premolars and molars)-acces cavity preparation on extracted teeth		8	
3. Access cavity on lower teeth (incisors, canines, premolars and molars)-acces cavity preparation on extracted teeth		8	
4. Root canal negotiation and patency. (monoradicular and pluriradicular teeth). Basic techniques in root canal shaping Basic motions of hand files The step-back technique for root canal preparation (taper of 5 % and 10 %).		8	
5. Apical gauging. Apical control zone. Root canal obturation. The lateral condensation. technique. Obturation on extracted teeth.		8	
6. Types of anestheisa in endodontics. Preendodontic treatment. Rubber dam isolation in endodontics.		8	
7. Working length determination in endodontics (radiographic, tactile, paper point, electrometric). Role of apex locator in determination of the working length. Demonstrations and practice on extracted teeth and patients.		8	
8. Irrigation techniques in endodontics. Types of irrigants and their role. Intracanal medication (calcium hydroxide as an interim dressing). Demonstrations and practice on extracted teeth and patients.		8	
9. Diagnosis tests in endodontics. Differential diagnosis and elaboration of the treatmnet plan. Case difficulty assessment.		8	
10. Restoration of endodontically treated teeth (with-without fiber posts).		8	
11. Endodontic treatment on patient. Evaluation of		8	

the endodontic treatment quality		
12. Endodontic treatment on patient. Evaluation of the endodontic treatment quality		8
13. Endodontic treatment on patient. Evaluation of the endodontic treatment quality		8
14. Practical exam		8

Bibliografie obligatorie:

1. Prezentările PPT și Keynote în format pdf la care studenții au avut acces direct. Aceste prezentări vor fi distribuite studenților

Bibliografie facultativă:

1. Richard Cohen, Stephen Burns – Pathways of the pulp, 10th Edition, Mosby Co, 2011
2. Richard Cohen, Stephen Burns – Pathways of the pulp, 11th Edition, Mosby Co, 2016
3. Arnaldo Castellucci – Endodontics vol I si II, Il Tridente, Firenze, 2008
4. Donald Arens, Alan Guskin- Practical Lessons in Endodontic Treatment, Quintessence, 2009
5. American Association of Endodontics Standards in Endodontic Therapy

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

Studentul este familiarizat cu patologia endodontică, în vederea realizării unui examen clinic riguros și ulterior în vederea stabilirii și executării celui mai adecvat plan de tratament. Fiind o disciplină clinică de specialitate, endodonția îi pregătește pe studenți în vederea abordării corecte a soluțiilor terapeutice în funcție de diferitele situații clinice pe care le vor întâlni în practica de zi cu zi, de la urgente la tratamente endodontice convenționale.

10. Evaluate

[illegible]

10.6 Standard minim de performanță

Cunoașterea morfologiei endodontice, instrumentelor specifice, a unei tehnici de preparare și a unei tehnici de obturare a spațiului endodontic. Cunoașterea etapelor clinice și a protocolalelor de lucru de realizare a unui tratament endodontic corect.

Data completării	Semnătura titularului de curs	Semnătura titularului de laborator
18.10.2018	Conf. Dr. Luminița Nica	1. Asist. univ. Dr. Marinescu Adrian 2. Asist. univ. Dr. Velea Oana 4. Asist. univ. Drd. Boscornea Pușcu Simona (suplinitor)

Semnătura șefului de disciplină, Conf. Dr. Luminița Nica	Semnătura directorului de departament, Conf. Dr. Luminița Nica
Data avizării în departament 22.10.2018	