Course Code and Name	**DHF320 Endodontics**
Course Semester	5. and 6. semesters
Catalog Content	In addition to the basic theoretical education including the indications of root canal treatment, materials and methods used in root canal treatment, endodontic microbiology, trauma, bleaching, students gain basic knowledge, skills and attitudes about the principles of performing root canal treatment in preclinical
Textbook	Endodonti, Tayfun Alaçam, 2012, Özyurt Matbaacılık: Ankara
Supplementary Textbooks	Endodontide problemler-Etiyoloji, tanı ve tedavi, Hülsmann M, Schafer E, 2007, Quintessence: İstanbul
Credit	6
Prerequisites of the Course (Attendance Requirements)	Attendance is obligatory. The practical application of the course (homework) is the threshold for entering the final exam (Final). Students who fail to complete the practical application successfully are not eligible to take the final exam. All exams of the course are a whole. In order to create the success grade, the student has to take every stage (theoretical-practical) of the exam. Prerequisites of the Course: DHF 222 Endodontics DHF 210 Restorative dental treatment DHF 2260 Science of dental materials
Type of the Course	Vocational / Technical Compulsory Course
Instruction Language	Turkish
Course Objectives	To teach basic endodontic treatment concepts, to prepare the student for the clinic by having basic applications at pre-clinical level
Course Learning Outcomes	1. The student will learn the pathogenesis and diagnosis of endodontic diseases by taking the basic endodontic theoretical knowledge. 2. The student will learn the treatment options, endodontic treatment techniques and materials by taking the basic endodontic theoretical knowledge. 3. The student will learn basic endodontic theoretical knowledge and principles of patient follow-up and prognosis. 4. The student becomes able to apply endodontic applications on extracted teeth as basic endodontic preclinical / practical knowledge.
Instruction Methods	Theoretical lecture, preclinical laboratory, table demonstration, clinical observation
Weekly Schedule	1. Week: PATIENT EXAMINATION IN ENDODONTICS 2. Week: DIAGNOSIS AND TREATMENT PLANNING IN ENDODONTICS 3. Week: DIRECT AND INDIRECT PULP CAPPING, VITAL AMPUTATION TREATMENT IN PERMANENT TEETH, APEXOGENESIS 4. Week: INDICATION AND CONTRE-INDICATIONS OF ROOT CANAL TREATMENT 5. Week: ROOT CANAL TREATMENT / PREPARATION OF THE TEETH

	6. Week: ROOT CANAL TREATMENT / RUBBER DAM APPLICATION 7. Week: ROOT CANAL TREATMENT / ENDODONTIC ACCESS CAVITY 8. Week: ROOT CANAL TREATMENT / WORKING LENGTH DETERMINATION, ELECTRONIC APEX LOCATORS 9. Week: ROOT CANAL TREATMENT / BIOMECHANICAL PREPARATION OF ROOT CANALS 10. Week: ROOT CANAL TREATMENT / BIOMECHANICAL PREPARATION OF ROOT CANALS 11. Week: ROOT CANAL TREATMENT / IRRIGATION OF ROOT CANALS 12. Week: ROOT CANAL TREATMENT / ROOT CANAL DISINFECTION 13. Week: PROVISIONAL RESTORATION 14. Week: ROOT CANAL TREATMENT / ROOT CANAL OBTURATION METHODS ---------- 15. Week: ROOT CANAL SEALERS 16. Week: ENDODONTIC RADIOGRAPHY 17. Week: ENDODONTIC MICROBIOLOGY 18. Week: ENDODONTIC MICROBIOLOGY 19. Week: IMMUNITY AND ENDODONTICS 20. Week: FOCAL ENDODONTICS 21. Week: TRAUMA IN ADULT TEETH 22. Week: CROWN-ROOT FRACTURE (UNCOMPLICATED) TREATMENT, CROWN-ROOT FRACTURE (COMPLICATED) TREATMENT, AVULSED TOOTH REPLANTATION, MOBILE TEETH SPLINTING, MANAGEMENT OF TRAUMATIC EXTRUSION-INTRUSION 23. Week: SINGLE-VISIT CANAL TREATMENT 24. Week: PERIAPICAL TISSUE HEALING, POSTOPERATIVE FOLLOW-UP 25. Week: SYSTEMIC MEDICATION IN ENDODONTICS 26. Week: DEVITAL TOOTH WHITENING 27. Week: EMERGENCY TREATMENTS IN ENDODONTICS 28. Week: ROOT CANAL RE-TREATMENT ---------- **PRECLINIC PROGRAM:** 1. Week 1: upper incisor endodontic access cavity and medication 2. Week 2: lower incisor endodontic access cavity and medication 3. Week 3: lower premolar endodontic access cavity and medication 4. Week: upper premolar endodontic access cavity and medication 5. Week: lower molar endodontic access cavity and medication 6. Week: upper molar endodontic access cavity and medication 7. week: upper incisor endodontic filling 8. Week: lower incisor endodontic filling 9. Week: lower premolar endodontic filling 10. Week: upper premolar endodontic filling 11. Week: lower molar endodontic filling 12. Week: lower molar endodontic filling 13. Week: upper molar endodontic filling 14. Week: upper molar endodontic filling In the second semester, each student does clinical observation for 2 weeks (2 weeks / semester)

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 2 hours/week (28 weeks)
Weekly practical course hours: 4 hours/week (14 weeks)
Reading Activities: 1 hour/week (14 weeks)
Internet search and library work:-
Designing and implementing materials: 8 hours/week (2 weeks)
Making a report:-
Preparing and making presentations:-
Midterm and revision for midterm: 4 hours/week (2 weeks)
Final exam and revision for final exam : 4 hours/week (1 week)

Assessment Criteria

	Number(s)	**Weight(%)**
Midterm Exam	2	21
Assignment (The average of the assignments specified in the first semester preclinical study program will be taken)	1	18
Application		
Project		
Practice (exam)	1	21
Quiz	-	-
Final exam (Theoretical %30 - Practical %70)	1	40
Total	1	100

Workload

Activity	**Total Number of Weeks**	**Duration (weekly hour)**	**Total Period Work Load**
Weekly Theoretical Course Hours	28	2	56
Weekly practical course hours	14	4	56
Reading activities	14	1	14
Internet search and library work			
Designing and implementing materials	2	8	16
Making a report			
Preparing and making presentations			
Midterm and Revision for Midterm	2	4	8
Final Exam and Revision for Final Exam	1	4	4
Other (should be emphasized)			
Total Workload			154
Total Workload / 25			6.16
Course Credit (ECTS)			6

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Knows the normal structures and functions of the human body and specifically the structures and teeth in the mouth area on the basis of cells, tissues, organs and systems, and their interactions with each other.				X	
2	Defines the causes and formation mechanisms of oral, dental and jaw diseases, the findings they cause, structural and functional disorders and how they affect the organism.					X

	3	Knows, grasps, correlates, evaluates the symptoms and findings in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program, diseases and conditions and professional practices at a determined level.					X	
	4	Knows to reach the best up-to-date scientific evidence, evaluate its reliability and validity in line with personal learning needs.				X		
	5	Knows the legislation on professional legal responsibilities, deontology and ethical principles		X				
	6	Knows and performs the professional practices in the national core education program of Dentistry and the Extended Education Program of Gazi University Faculty of Dentistry at the determined level.					X	
	7	Carries out diagnosis, treatment and follow-up processes by prioritizing evidence-based practice, critical thinking and ethical principles.				X		
	8	Becomes aware of his/her limitations, set personal learning goals to support professional development, guide the patient to the appropriate center when necessary.				X		
	9	Knows the prevalence of diseases in the mouth, teeth and jaws in the society, contributes to prevention and reduction.					X	
	10	Acts in accordance with the laws, regulations, legislation and ethical principles regarding their duties and responsibilities while independently practicing their profession.		X				
	11	Has teamwork and leadership skills, and becomes a role model for colleagues and society.			X			
	12	Plans personal professional development and realizes it with the principle of lifelong learning.		X				
	13	Establishes effective written and verbal communication with patients, their relatives, other healthcare professionals, society, relevant sectors and media.			X			
	14	Follows the innovations in the profession by using foreign language and information communication technologies			X			

The Course's Lecturer(s) and Contact Informations	1. Prof. Dr. Sis Yaman, sisyaman@gazi.edu.tr 2. Prof. Dr. Cemal Tınaz, tinaz@gazi.edu.tr 3. Prof. Dr. Özgür Topuz, topuz30@hotmail.com 4. Prof. Dr. Özgür Uzun, ozguruzun@gazi.edu.tr 5. Prof. Dr. Bağdagül Kıvanç, bagdagulkivanc@gmail.com 6. Prof. Dr. Güven Kayaoğlu, guvenkayaoglu@gmail.com 7. Prof. Dr. İlke Ulusoy, ilkeatasoy@yahoo.com 8. Doç. Dr. Mügem Ekici, muugeem@hotmail.com