

Dentistry (English)			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	DENT307		
Course Name:	Clinical Endodontics		
Semester:	Fall		
Course Credits:	<div>ECTS</div> <div>2</div>		
Language of instruction:	English		
Course Condition:			
Does the Course Require Work Experience?:	Yes		
Type of course:	Compulsory Courses		
Course Level:	<div>Bachelor</div> <div>TR-NQF-HE:6. Master`s Degree</div> <div>QF-EHEA:First Cycle</div> <div>EQF-LLL:6. Master`s Degree</div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Doç. Dr. AYFER ATAV ATEŞ		
Course Lecturer(s):	ayfer atav		
Course Assistants:			

Course Objective and Content

Course Objectives:	Teaching the pathogenesis of pulp and periapical diseases, examination and diagnosis methods necessary for endodontic treatment, treatment planning stages, root canal treatment methods, possible complications and solutions are the objectives of the course.
Course Content:	Knowledge of theoretical/practical knowledge and materials required for clinical endodontics

Learning Outcomes

The students who have succeeded in this course;

- 1) Knows pulp and periapical tissue diseases and can effectively diagnose and treat them.
- 2) Has basic theoretical knowledge on endodontic immunology and microbiology and has the ability to associate this knowledge with clinical applications.
- 3) Has knowledge of endodontic treatment planning, indications and contraindications, clinical tests and up-to-date equipment to be used for diagnosis
- 4) Has sufficient knowledge of the necessary tools, materials, root canal preparation, and filling techniques to perform endodontic treatment.
- 5) Has knowledge on vital pulp treatments, cracked tooth syndrome and pulp protection.
- 6) Knows of traumatic dental injuries and emergency applications in endodontics.

Course Flow Plan

Week	Subject	Related Preparation
1)	Cross infection control and sterilization in Endodontics	
2)	Root canal irrigation solutions	
3)	Cleaning and shaping of the root canal system	
4)	Materials Used During Root Canal Treatment	
5)	Disinfection of the root canal system	
6)	Root canal obturation techniques	
7)	Histological properties of pulp	
8)	Extraoral and intraoral examination	
9)	Roles of endodontics in treatment planning (Implant or endodontics? Why?)	
10)	Magnification in endodontics	
11)	Pulp Diseases I	
12)	Pulpal Diseases II	
13)	Midterm exam	
14)	Pulp Degenerations And Pulp Necrosis	
15)	Endodontic Radiography Techniques and Their Importance	
16)	Post-endodontic Restorations	

17)	Root Canal Retreatment	
18)	Procedural Mistakes in Endodontics	
19)	Indications and Contraindications in Endodontic Treatment	
20)	Overview to Endodontic Treatment	
22)	Possible complications and precautions to be taken during root canal treatment	
23)	Ni-Ti Rotary Instruments in Endodontics	
23)	Local Anesthesia Applications	
24)	Endodontic Case Discussion part 1 (Pulpal Diseases)	
25)	Endodontic Case Discussion Part 2 (Pulpal Diseases)	
26)	Final Exam	

Sources

Course Notes / Textbooks:	<p>1. Endodontics Principles and Practice (5th Edition)</p> <ul style="list-style-type: none"> • Richard E. Walton • Mahmoud Torabinejad <p>Elsevier</p> <p>2. Cohen's Pathways of the Pulp (11th Edition)</p> <ul style="list-style-type: none"> • Kenneth M Hargreaves • Louis H Berman <p>Elsevier</p> <p>3. Ingle's Endodontics (7th Edition)</p>
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Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6

Program Outcomes Course Learning Outcomes	1	2	3	4	5	6
1) Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	3	3	3	3	3	3
2) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.						
3) Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	1	1	1	1	1	1
4) Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.						
5) Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	2	2	2	2	2	2
6) Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.						
7) Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.						
8) Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.						
9) By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.						
10) During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.						
11) Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.						
12) In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that						

benefit patients and society	1	2	3	4	5	6
Course Learning Outcomes						
13) Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.						
14) Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.	3	3	3	3	3	3
15) Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.						

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	3
2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	
3)	Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	1
4)	Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	
5)	Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	2
6)	Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.	
7)	Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.	

8)	Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	
9)	By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.	
10)	During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.	
11)	Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.	
12)	In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society	
13)	Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.	
14)	Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.	3
15)	Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	2	% 40
Final	1	% 60
total		% 100
PERCENTAGE OF SEMESTER WORK		% 40
PERCENTAGE OF FINAL WORK		% 60
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
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Course Hours	56	2	1		168
Midterms	2	3	1		8
Final	1	4	1		5
Total Workload					181