

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

## Course Introduction and Application Information

Course Code:	DENT202		
Course Name:	Introduction to Endodontics		
Semester:	Spring		
Course Credits:	<div>ECTS</div> <div>2</div>		
Language of instruction:	English		
Course Condition:			
Does the Course Require Work Experience?:	No		
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):	Doç. Dr. Ayfer Atav Ateş, Dr. Öğr. Üyesi Murat Demiral		
Course Assistants:			

## Course Objective and Content

Course Objectives:	This course aims to teach students the biology of the dental pulp and periapical tissue diseases, pulpal pain mechanism, root and canal morphology, and anatomical variations, the methods of the treatments within the scope of endodontics, and the materials used during these treatments.
Course Content:	Pulp and periapical tissue diseases, diagnosis and treatment planning, indications-contraindications, access cavities, instruments and materials used in endodontic treatment, root

## Learning Outcomes

The students who have succeeded in this course;

- 1) Knows definition of endodontics and explanation of its scope
- 2) Knows to principles of access cavities of all teeth groups
- 3) Knows root canal irrigation and antiseptic use in root canals
- 3) Knows root canal instrumentation techniques.
- 4) Knows the temporary filling materials, filling materials and root canal filling methods used in the root canal.
- 5) Has knowledge of endodontic radiography, pulp structure and functions, periapical anatomy, histology, physiology and pathology
- 6) Has knowledge of how root canal working length is determined and canal shaping methods

## Course Flow Plan

Week	Subject	Related Preparation
1)	History and topics of endodontics	
2)	Root canal anatomy and morphological variations	
3)	Tooth Morphology and Preparation of Endodontic Access Cavities for Maxillary Incisors and Canines	
4)	Tooth Morphology and Preparation of Endodontic Access Cavities for Mandibular Incisors and Canines	
5)	Tooth Morphology and Preparation of Endodontic Access Cavities for Maxillary Premolars	
6)	Tooth Morphology and Preparation of Endodontic Access Cavities for Mandibular Premolars	
7)	Tooth Morphology and Preparation of Endodontic Access Cavities for Maxillary Molars	
8)	Tooth Morphology and Preparation of Endodontic Access Cavities for Mandibular Molars	
9)	Principles and Importance of Endodontic isolation	
10)	Endodontic Instruments and Armamentarium	
11)	Anatomy of Root Tips and Determination of Working Length	
12)	Biomechanical Preparation of Root Canals	

13)	Root Canal Instrumentation Techniques and procedural errors	
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## Sources

Course Notes / Textbooks:	Kenneth M Hargreaves, Louis H Berman. Pathways of the Pulp (11th Edition) Elsevier
References:	1. Nisha Garg, Amit Garg, Textbook of Endodontics, 2010 2. Walton R.E, torabinejad M. Endodontics Principles and Practice (5th Edition) Elsevier 3. Ilan Rotstein, John I. Ingle. Ingle's Endodontics (7th Edition). Raleigh

## Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	3	4	5	6
Program Outcomes							
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.	2	2	2	2	2	2	2
2) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	2	2	2	2	2	2	2
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.							
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	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.							
<b>Course Learning Outcomes</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
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	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.	2

2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	2
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.	
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	1	% 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
Course Hours	26	1	1		52
Midterms	1	4	1		5
Final	1	4	1		5
Total Workload					62