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

Course Introduction and Application Information

Course Code:	DENT204
Course Name:	Endodontics Preclinic 1
Semester:	Spring
Course Credits:	ECTS: 4
Language of instruction:	English
Course Condition:	
Does the Course Require Work Experience?:	Yes
Type of course:	Compulsory Courses
Course Level:	Bachelor | TR-NQF-HE:6. Master`s Degree | QF-EHEA:First Cycle | EQF-LLL:6. Master`s Degree
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:	To gain the ability to work in a clinical environment by applying root canal treatment to different teeth on phantom jaw models.
Course Content:	Preclinical root canal treatment studies on different teeth on phantom jaw models

Learning Outcomes

The students who have succeeded in this course;
1) Identify all the materials and supplies necessary for all the procedures involved in root canal treatment and understand their applications in the clinic.
2) Identify patent pulp chambers and canals by means of endodontic digital radiographs; recognize canal systems with extreme curvatures, calcifications, and other complicating anatomical/pathological features.
3) Establish appropriate working lengths, and properly clean and shape canals of teeth in preparation for obturation using warm condensation technique.
4) Identify, prevent, and manage procedural errors that may occur during endodontic treatment.
5) Understand and apply appropriate clinical regimens required for endodontic treatment including: proper local anesthesia, rubber dam isolation, radiographic interpretation, restoration placement, and recordkeeping.

Course Flow Plan

Week	Subject	Related Preparation
1)	Short info about endodontic laboratory and embedding of teeth in phantom jaws	
2)	Endodontic tools (root canal explorer, files, reamers, etc), root canal cleaning, shaping, and irrigation	
3)	Access cavity opening for maxilllary Incisors and Canines	
4)	Access cavity opening for mandibular incisors and canines	
5)	Shaping and disinfection of root canals (cental and lateral incisor teeth)	
5)	Access cavity opening of Maxillary Premolars	
6)	Filling the root canals and submitting the homework (cental and lateral incisor teeth)	
6)	Access cavity opening for maxillary molar teeth	
8)	Shaping and disinfection of root canals (canine and premolar teeth)	
9)	Filling the root canals and submitting the homework (canine and premolar teeth)	
11)	Shaping and disinfection of root canals (molar teeth)	
12)	Filling the root canals and submitting homework (molar teeth)	
13)	Completion of missing assignments	
14)	Midterm exam	

Sources

Course Notes / Textbooks:	V Gopikrishna, Preclinical Manual of Conservative Dentistry and Endodontics 3rd Edition, Elsevier India; (2019)
References:	1. Endodontics Principles and Practice (5th Edition) • Richard E. Walton • Mahmoud Torabinejad Elsevier 2.Cohen’s Pathways of the Pulp (11th Edition) • Kenneth M Hargreaves • Louis H Berman Elsevier 3.Ingle's Endodontics (7th Edition) • Ilan Rotstein • John I. Ingle Raleigh

Course - Program Learning Outcome Relationship

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

Course Learning Outcomes	1	2	3	4	5
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	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	2

	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.	
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.	3
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
Homework Assignments	5	% 10
Midterms	1	% 30
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	39	1	1		78
Midterms	1	6	2		8
Final	1	6	2		8
Total Workload					**94**