

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

## Course Introduction and Application Information

Course Code:	DENT318		
Course Name:	Orthodontics - Diagnosis and Interceptive Treatment		
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:	Dr. Öğr. Üy. BEGÜM ASLAN		
Course Lecturer(s):	Begüm ASLAN		
Course Assistants:			

## Course Objective and Content

Course Objectives:	The aim of this course is to provide theoretical knowledge on classification of malocclusions and diagnostic methods in orthodontic treatment.
Course Content:	In the scope of this course, topics such as eruption times of primary and permanent teeth, classification of early and delayed eruption of primary and permanent teeth, the biomechanics and histology of orthodontic tooth movement, biomechanics in orthodontics, anchorage,

materials used in orthodontics, cephalometric X-ray analysis, model evaluation, diagnostic methods, dental and skeletal malocclusions will be discussed.

## Learning Outcomes

The students who have succeeded in this course;

- 1) The student can describe the processes of orthodontic tooth movement and the histology of tooth movement in orthodontics.
- 2) They can perform cephalometric radiographic analysis.
- 3) They can make orthodontic model analysis.
- 4) They can define materials used in orthodontics.
- 5) They can identify orthodontic treatment needs in mixed dentition situations and formulate treatment plans.
- 6) They can make orthodontic classification of dental and skeletal malocclusions.

## Course Flow Plan

Week	Subject	Related Preparation
1)	Classification of Malocclusions	Preliminary study of the suggested sources
2)	Bad Oral Habits	Preliminary study of the suggested sources
3)	Skeletal Age Assessment (Hand and Wrist Radiography, Cephalometric Radiography)	Preliminary study of the suggested sources
4)	Cephalometric Analysis II	Preliminary study of the suggested sources
5)	Cephalometric Analysis	Preliminary study of the suggested sources
6)	Orthodontic Model Analysis	Preliminary study of the suggested sources
7)	Anchorage in Orthodontics	Preliminary study of the suggested sources
8)	Midterm Exam	
9)	Orthodontic Materials	Preliminary study of the suggested sources
10)	Treatment Alternatives of Class I,II and III malocclusions	Preliminary study of the suggested sources
11)	Treatment Alternatives of Class I,II and III malocclusions	Preliminary study of the

		suggested sources
12)	Guidance of Eruption and Serial Extraction	Preliminary study of the suggested sources
13)	Guidance of Eruption and Serial Extraction	Preliminary study of the suggested sources

## Sources

Course Notes / Textbooks:	1. Contemporary Orthodontics, Proffit WR et al. 3rd ed. Mosby, St. Louis, Missouri, 2000  2. Orthodontics: Current Principles and Techniques, Graber TM, Vanarsdall RL, 4th ed. Mosby, St. Louis Missouri, 2005
References:	1. Contemporary Orthodontics, Proffit WR et al. 3rd ed. Mosby, St. Louis, Missouri, 2000  2. Orthodontics: Current Principles and Techniques, Graber TM, Vanarsdall RL, 4th ed. Mosby, St. Louis Missouri, 2005

## Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	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) 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.						
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.						
6) Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.						

Course Learning Outcomes	1	2	3	4	5	6
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.						
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
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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)	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.	
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.	
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.	
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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.	
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### Assessment & Grading

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

### 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			26
Midterms	1	5	1		6
Final	1	10	1		11
<b>Total Workload</b>					<b>43</b>