



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Orthodontic Materials							
Course Code		ORD621		Couese Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Recognition of basic elements of removable and fixed orthodontic appliances, teaching the features of materials used for bonding of appliances and band-brackets.							
Course Content		Features of materials used in removable and fixed orthodontic treatment, wires, bands and brackets, bonding materials and their biocompatibility.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Brantley W, Eliades T. Orthodontic Materials: Scientific and clinical aspects Georg Thieme Verlag, 1. Baskı, 2001.
2	Graber T, Wanarsdall R, Vig C. Orthodontics: current principles and techniques Elsevier inc , 4. baskı, 2005.

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic properties of orthodontic materials
2	Theoretical	Basic properties of orthodontic materials
3	Theoretical	Methods for testing orthodontic materials
4	Theoretical	Orthodontic wires
5	Theoretical	Orthodontic brackets
6	Theoretical	Friction
7	Theoretical	Elastomeric materials
8	Theoretical	Etching
9	Theoretical	Principles of adhesion
10	Theoretical	Basic properties of composites
11	Theoretical	Cements in orthodontics
12	Theoretical	Biocompatibility
13	Theoretical	Biocompatibility
14	Theoretical	Allergic reactions

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	0	2	2
Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Students who have successfully completed this course are expected to be able to have an ability to choose the appropriate material with correct handling rules clinically.
2	Knows right usage of chosen materials.



3	Have an ability to store the materials in recommended ways.
4	Protect both himself and the patient from potential side effects.
5	knows sterilization rules

Programme Outcomes (Orthodontics Doctorate)

1	Must know the transition procedure from primary dentition to permanent dentition, tooth eruption guidance, the precautions for tooth absence and bad habits.
2	May be able to diagnose the orthodontic malocclusion and able to present treatment alternatives for the case.
3	May be able to apply the analysis necessary for diagnosis, such as cephalometric analysis and model analysis and must know the occlusion.
4	Must know the orthodontic tooth movement, the force necessary for the tooth movement, and be able to take the precautions according to the unwanted tooth movements.
5	Must be able to diagnose the functional malocclusions and apply functional appliances.
6	Must be able to apply fixed treatment techniques used in our clinic such as edgewise, Roth, Alexander, MBT
7	Must be aware of the new treatment techniques and improvements in orthodontics.
8	Must know how the craniofacial complex develops and be able to follow the patient's development and growth.
9	Must be able to know how to apply removable appliances and their fabrication and their effects.
10	Must know about the retention period for the patient in order to keep the treatment results stable.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P6	2	2		
P7	3	3	3	3
P9	5	5	5	5

