



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Dental Arch and Maxillary Expansion							
Course Code		ORD634		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Learning dental arch and maksillary expansion.							
Course Content		Development of maksilla and mandibula and maksillary expansion.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Graber TM, Vanarsdall RL: Orthodontics, Current principles and techniques. Fifth ed., Mosby Inc. 2011.
2	Isaacson KG, Muir JD, Reed RT: Removable orthodontic Appliances, Wright An Imprint of Elsevier Science, 2002.
3	Proffit WR, Fields HW. Contemporary Orthodontics. Mosby, 2012.
4	Krishnan V, Davidovitch Z. Biological Mechanisms of Tooth Movement, 2009.

Week	Weekly Detailed Course Contents	
1	Theoretical	Intrauterine development of maxilla
2	Theoretical	Intrauterine development of mandibula
3	Theoretical	Forming time of maxillary teeth
4	Theoretical	Forming of maxillary and mandibular teeth after birth
5	Theoretical	Eruption time of deciduous teeth and development of deciduous dentition
6	Theoretical	Period of mix dentition and alteration in the archs
7	Theoretical	Period of permanent dentition and alteration in the archs.
8	Theoretical	Indications, plan and rules of use of removable appliances
9	Theoretical	Indications and plan of expansion appliances
10	Theoretical	Y plate appliance
11	Theoretical	Indications of rapid maksillary expansion
12	Theoretical	Appliance of rapid maksillary expansion
13	Theoretical	Application of rapid maksillary expansion
14	Theoretical	Case report

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	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	How and in which age ranges does deciduous dentition develop?
2	Which age ranges are suitable to mix dentition and what changes are happen in dentition in this proces?



3	Determination of maksillary expansion need
4	How is maksillary expansion?
5	rapid maxillary expansion

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
P1	5	5	4	
P2	4	4	5	5
P3	4	4	5	
P4				3
P5	3	3	5	3
P6				4
P7				4
P8	4	4	4	
P9				5

