AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Functional Anomalies and Treatment								
Course Code	ORD622		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	6	Workload	150 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	It is aimed to teach functional anomalies, development of functional appliances, application, types, effects.								
Course Content	It includes the functional anomalies and diagnostic methods, historical background of functional appliances, types, skeletal and soft tissue effects and functional treatments.								
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	Graber TM, Neumann B: Removable Orhodontic Appliances. WB Saunders Company, Philadelphia 1984.
2	Graber T, Swain B: Orthodontics,Current Principles and Techniques,The CV Mosby Comp,1985.
3	Graber T, Rakosi T, Petrovic A: Dentofacial Orthopedics with Functional Appliances, Mosby Comp.1997.
4	Papadopoules M A: Orthodontic Treatment of the class III non compliant patient, Mosby Elsevier, Edinburg 2006.

Week	**Weekly Detailed Course Contents**	
1	Theoretical	Philosophy of Functional Therapy
2	Theoretical	Principles and Effectiveness of Functional Appliances
3	Theoretical	Noromuscular System and Functional Therapy
4	Theoretical	Functional Analyses in Functional Treatment Planning
5	Theoretical	Construction Bite and Classification of Views
6	Theoretical	The Activator
7	Theoretical	Construction of Activator (Class 2)
8	Theoretical	Skeletal and Dentoalveolar Effects of the Activator
9	Theoretical	The Effects of Functional Appliances on TMJ
10	Theoretical	The Frankel Function Repulator and Types
11	Theoretical	The Twin Block Technique
12	Theoretical	Jasper Jumper Appliance
13	Theoretical	The Other Functional Appliances
14	Theoretical	Fixed Functional Appliances

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	2	0	14	28
Individual Work	6	0	10	60
Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
			Total Workload (Hours)	150
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Students who have successfully completed this course can diagnose the functional anomalies.
2	Has knowledge about philosophy of functional orthopedic therapy and its way of effect.
3	Makes clinical applications of functional appliances.
4	Has knowledge about the changes made by functional appliances on hard and soft tissues of face and jaws.
5	Has knowledge about fixed functional appliances.

Programme Outcomes *(Orthodontics Doctorate)*	
1	Must know the transition procedure from primary dentition to permanent dentition, tooth eruption guidance, the precausions for tooth absence and bad habbits.
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 orthdontic tooth movement, the force necessary for the tooth movement, and be able to take the precausions 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 developes 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	L5
P1	4				
P2	4				
P5	5	5	5	5	5
P9	3				