AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	The İmportance of Respiratory Dysfunction								
Course Code	ORD641		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	This course comprises the diagnosis of dental and orthodontic problems in obstructive sleep apnea patients as well as information on orthodontic treatment modalities in adult and child sleep apnea cases, intraoral appliance treatment and combined orthognathic surgical treatment.								
Course Content	The effect of respiratory problems on dentofacial growth and development, dental and orthodontic evaluation in patients with obstructive sleep apnea, sleep related breathing disorders in children, Orthodontic treatment in children with sleep-disordered breathing, oral appliance treatment in obstructive sleep apnea patients.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Cartwright R, Ferguson K, Rogers R, Schmidt-Nowara W. Oral appliances for snoring and obstructive sleep apnea: a review. Sleep. 2005.
2	Kushida CA, Morgenthale TI, Littner MR ve ark. Practice parameters fort he treatment of snoring and obstructive sleep apnea with oral appliances: An update for 2005. Sleep 2006; 29(2): 240-43.
3	Ferguson KA, Cartwright R, Rogers R. Oral appliances for snoring and obstructive sleep apnea: A review. Sleep 2006: 29 (2):244-262.
4	Hoffstein V. Review of oral appliances for treatment of sleep-disordered breathing. Sleep Breath 2007: 11: 1-22.
5	Randerath WJ,Sanner BM,Somers VK (eds):Sleep apnea.Prog Respir Res. Basel, Karger,2006, vol 35, s 1-12.

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of sleep disorders
2	Theoretical	Respiratory physiology during sleep, upper airway obstruction in snoring and upper airway respiratory resistance syndrome
3	Theoretical	Obstructive sleep apnea hypopnea syndrome: description and pathophysiology
4	Theoretical	Polysomnography, evaluation of sleepiness, use of questionnaires
5	Theoretical	Upper airway imaging and cephalometric analysis in sleep apnea syndrome
6	Theoretical	Obstructive sleep apnea yndrome: Clinical appearence, diagnosis aqnd treatment.
7	Theoretical	Intraoral appliances in treatment of obstructive sleep apnea syndrome
8	Theoretical	Fabrication, calibration and floow-up of intraoral appliances
9	Theoretical	Sleep related breathing disorders, nasal and oropharyngeal pathologies, neuromuscular disorders and dentofacial deformities in children
10	Theoretical	Orthodontic treatment in children with sleep-disordered breathing
11	Theoretical	Orthognathic treatment in obstructive sleep apnea syndrome
12	Theoretical	Other treatment modalities in obstructive sleep apnea syndrome
13	Theoretical	Alternative, behavioral and pharmacological treatment options in obstructive sleep apnea syndrome
14	Theoretical	Cardiovascular complications of sleep disordered breathing

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	0	10	10
Individual Work	6	0	7	42

Midterm Examination	1	9	1	10
Final Examination	1	9	1	10
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	At the end of this course the student will be able to define the characteristics of patients with obstructive sleep apnea syndrome.
2	Is able to do the cephalometric analysis of patients with obstructive sleep apnea syndrome.
3	Takes the necessary orthodontic records for treatment with oral appliances.
4	Knows the combined orthodontic-surgical treatment modalities used in obstructive sleep apnea treatment.
5	knows the importance of apnea hypopnea index

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
P2		3		5
P3	2	5	5	3
P4				1
P5	5	4		
P6			3	3
P7	3	3	3	4
P8	5	5		
P9	4		5	4
P10	4		4	3