



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Growth and Development							
Course Code		ORD651		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		maxillary and mandibular growth will be discussed							
Course Content		prenatal and postnatal growth will be discussed							
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	Salzmann JA.Practice of Orthodontics,JB Lippincott Co, Voll-II,1966.
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Week	Weekly Detailed Course Contents	
1	Theoretical	introduction to growth and development
	Practice	introduction to growth and development
2	Theoretical	structural properties of bone tissue
	Practice	structural properties of bone tissue
3	Theoretical	ossification and ossification types
	Practice	ossification and ossification types
4	Theoretical	bone growth and bone growth development sites
	Practice	bone growth and bone growth development sites
5	Theoretical	bone growth and development mechanisms
	Practice	bone growth and development mechanisms
6	Theoretical	ossification and development of the maxilla and mandible in the prenatal period
	Practice	ossification and development of the maxilla and mandible in the prenatal period
7	Theoretical	periodontal membrane and alveolar bone as a place of growth and development
	Practice	periodontal membrane and alveolar bone as a place of growth and development
8	Theoretical	head and face types resulting from growth and development
	Practice	head and face types resulting from growth and development
9	Theoretical	relationship between growth and development clinical practice
	Practice	relationship between growth and development clinical practice
10	Theoretical	growth of the nasomaxillary complex and mandible in the postnatal period
	Practice	growth of the nasomaxillary complex and mandible in the postnatal period
11	Theoretical	human growth and development
	Practice	human growth and development
12	Theoretical	development of dental system



12	Practice	development of dental system
13	Theoretical	determination of growth and development stage from bone growth and development
	Practice	determination of growth and development stage from bone growth and development
14	Theoretical	bone growth and development centers
	Intermediate Exam	bone growth and development centers

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	0	12	24
Individual Work	5	0	10	50
Midterm Examination	1	8	2	10
Final Examination	1	8	2	10
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	development of dental system
2	periodontal membran and alveolar bone as a growth and development place
3	prenatal growth of maxilla and mandibula
4	growth of dental germs
5	Explain the factors that affect learning

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
P3			3	
P4	2			3
P5		2		
P6	3			2
P7		5		3
P8		4		
P10				5

