AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Formation of Dental Tissues, Tooth Eruption, Root Resorption								
Course Code	PED601		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	154 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The purpose of this course is giving information about cells, mechanisms and anomalies related to tooth formation, tooth application and root resorption.								
Course Content	Topics will be discussed such as embryological development of teeth and jaws, enamel, dentine and cementum formation, function of ameloblasts, dentinogenesis and dentine mineralization, pulp and development of periodontal ligament. Theories about tooth eruption, the resulting changes in tooth eruption in dental alveolus, deciduous and permanent teeth eruption, eruption disorders, deciduous and permanent teeth eruption time, early and late eruption causes, root resorption mechanisms, resorption anomalies 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	Pinkham JR, Casamassimo PS, McTigue DJ, Fields HW, Nowak AJ. 2005, Pediatric Dentistry: Infancy Through Adolescence.

Week	Weekly Detailed Course Contents	
1	Theoretical	Embryological development of teeth and jaws I
2	Practice	Embryological development of teeth and jaws II
3	Theoretical	Embriyolojik diş dokuları
4	Theoretical	Structure and functions of ameloblasts
5	Theoretical	Structure and functions of odontoblasts
6	Theoretical	Development and mineralization of enamel and dentin
7	Theoretical	Development of pulp
8	Theoretical	Development of periodontal tissues
9	Theoretical	Eruption theories of deciduous and permanent teeth
10	Practice	Time and order of eruption of deciduous and permanent teeth
11	Theoretical	Anomalies of eruption of deciduous and permanent teeth I
12	Practice	Anomalies of eruption of deciduous and permanent teeth II
13	Theoretical	Reasons for early and late tooth eruption
14	Theoretical	Mechanism of root resorption in decisuous teeth
15	Intermediate Exam	Mid-term

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	10	11	42
Lecture - Practice	2	5	3	16
Individual Work	6	4	10	84
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
			Total Workload (Hours)	154
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Understanding embryological development of teeth and jaws
2	Understanding the functions of embryological tooth tissues
3	Understanding of tooth eruption and root resorption mechanisms
4	To be able to interpret problems related to developmental stages of teeth
5	To be able to interpret shedding mechanisms of teeth

Programme Outcomes *(Pediatric Dentistry Doctorate)*	
1	Must be able to diagnosis and treatment plan in child patient
2	Must know the preventive dentistry treatments.
3	Must be able to restorative treatments in pediatric patient
4	Must be able to know how to apply space maintanences and their fabrication and their effects.
5	Must be able to clinical approach for dental trauma
6	Must be able to manage the dental treatment of handicapped and uncooperative child patient iunder dental sedation and general anesthesia
7	Must be aware of the new treatment techniques and improvements in pedodontics.

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

	L1	L2	L3
P1	4	4	
P2	4	4	
P3	4	4	4
P4	4	4	4
P5	4	4	
P6	4	4	
P7	4	4	