



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Caries Etiology, Microbiology and Histopathology							
Course Code		PED622		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	155 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To learn the microorganisms and properties that play a role in tooth decay							
Course Content		Theories of tooth decay, etiology and day-to-day decayed etiology, microorganisms and bacterial metabolism that play a role in caries formation, histopathology of tooth decay, decay of enamel and dentin and layers of decay.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Prof. Işıl SÖNMEZ							

### 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	Tooth Decay in Children
2	Theoretical	Epidemiology of tooth decay
3	Theoretical	Methods of caries detection
4	Theoretical	Protective practices and decay prophylaxis in children
5	Theoretical	Nutrition related to caries
6	Theoretical	Detection of caries risk
7	Intermediate Exam	Midterm exam
8	Theoretical	Early childhood caries
9	Theoretical	Starch based sugar
10	Theoretical	Fissure sealants
11	Theoretical	Caries and microorganisms I
12	Theoretical	Caries and microorganisms II
13	Theoretical	Preventive resin restoration
14	Theoretical	Dental infection in children
15	Theoretical	Antimicrobial treatment in children

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	3	10	15	75
Individual Work	2	10	15	50
Midterm Examination	1	5	5	10
Final Examination	1	10	10	20
Total Workload (Hours)				155
[Total Workload (Hours) / 25*] = ECTS				6

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Reproductive differences in bacteria in the oral cavity
2	Metabolism, distribution and types of oral microflora
3	Explanation of the relationship between dental plaque, tooth decay and microbial biophytes



4	Understanding and applying the principles of microbiology to the clinic
5	Evaluation of tooth decay microbiology

**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 maintenances 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	L5
P1			3
P2	4	5	
P7			5

