

Course Title	Pediatric Dentistry I				
Course Code	DES380				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	3 rd year / 6 th semester				
Teacher's Name	TBA				
ECTS	1	Lectures / week	1 hr / 13 weeks + exam week	Laboratories / week	1 hr / 13 weeks
Course Purpose and Objectives	<p>The objective of the course is to familiarize students with Pediatric Dentistry. It is designed to acquaint Dental students with the fundamental terms, concepts, and principles of Pediatric Dentistry with emphasis on diagnosis and prevention of oral diseases, for the child and the adolescent.</p> <p>The course is designed to integrate with lectures, laboratories, group discussions and clinical case problems and enable students to use that knowledge to solve relevant clinical problems. All lectures, laboratories, group discussions, and clinical problems emphasize integrations of basic science concepts with clinical significance and applications.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Describe tooth development in the deciduous and mixed dentition, the different stages of tooth calcification and their clinical relevance, the time and sequence of deciduous and permanent tooth eruption. • Evaluate dental age according to the patient's chronological age. • Describe caries diagnosis with clinical criteria, ICDAS, in deciduous and permanent teeth, with emphasis on the early lesions. • Estimate the patient caries risk using software based and questionnaire based Caries Risk Assessment (CRA) systems. • Design customized preventive programs appropriate for the child's age, caries risk and risk of periodontal disease. • Describe the contribution of diet on caries development in children. 				

	<ul style="list-style-type: none"> • Perform diet analysis and dietary counseling both to parents and child. • Discuss the child's normal physical, mental and psychological development. • Evaluate the child's growth according to its weight and height, using weight and height curves. • Describe the factors responsible for establishing a positive attitude and cooperative behavior of the child in the dental operatory. • Discuss the behavior management techniques that can be used for the child's behavior management during dental treatment. • Diagnose radiographically caries, or any other dental or periodontal pathology. • Evaluate in panoramic radiographs tooth development and identify tooth number abnormalities as well as other pathologic conditions of the jaws. • Coordinate and performing a school based oral health visit. 		
Prerequisites	None	Co-requisites	None
Course Content	<p>In that regard, students will familiarize themselves with the following Modules:</p> <ul style="list-style-type: none"> • Introduction to Pediatric Dentistry specialty and EUC curriculum • Calcification, eruption and development of the primary and permanent dentition • Normal physical and psychological development of pediatric patients • Caries diagnosis in Pediatric Dentistry, with clinical criteria • Diagnostic imaging in Pediatric Dentistry and the protocol to be followed in EUC • Caries Risk Assessment (CRA) in Pediatric Dentistry • Prevention in Pediatric Dentistry for the infant, preschooler, school aged child and adolescent • Impact of diet to oral health, in pediatric patients • Methods of oral plaque removal in Pediatric Dentistry • Recognition of behavior problems • Factors contribution to positive behavior at the dental practice • Psychological techniques of shaping positive behavior • Psychological techniques of modifying negative behavior • Effectiveness of school based oral health programs • How to coordinate and prepare an oral health school-based visit <p>Laboratory skills</p>		

	<ul style="list-style-type: none"> • Navigate through the suggested reference textbooks and websites of EAPD and AAPD and be able to retrieve necessary material • Estimate dental age from virtual cases of panoramic X-rays • Learn to plot growth curves on case scenarios and diagnose aberrations • Diagnose caries using ICDAS caries diagnosis system, with emphasis on early lesions • Learn to diagnose caries and pathology from X-rays with emphasis on bitewings and panoramic x-rays • Estimate Caries Risk Assessment by using different systems • Prepare customized preventive programs by age group and caries risk • Practice on diet analysis by performing a three-day diet analysis on different case scenarios • Give out proper recommendations after analyzing the results of diet analysis • Practice on typodonts techniques of plaque removal, according to age and child dexterity • Discuss solutions for different case scenarios of patients with behavioral problems at the dental office • Prepare (in groups) a presentation for a kindergarden, a primary school and a high school oral health visit • Simulation of the oral health school visit, for the kindergarden, the primary school and the high school
Teaching Methodology	Lectures, Face- to- Face, Team-Based Learning, Problem Based Learning, Small Group Discussions, Virtual case scenarios, Group Presentations
Bibliography	<p>Koch G, Poulsen S, Espelid I, Haubek D. Pediatric Dentistry: A Clinical Approach. Oxford: Wiley Blackwell, 2017.</p> <p>Dean JA. McDonald and Avery's Dentistry for the Child and Adolescent. St. Louis: Elsevier, 2015.</p> <p>European Academy of Pediatric Dentistry Policies and Guidelines https://www.eapd.eu/index.php/policies-and-guidelines</p> <p>American Academy of Pediatric Dentistry Oral Health Policies and Recommendations (The Reference Manual in Pediatric Dentistry) https://www.aapd.org/research/oral-health-policies--recommendations/</p>

Assessment	<table border="1"><tr><td data-bbox="443 232 1023 271">Final Examination</td><td data-bbox="1023 232 1195 271">60%</td></tr><tr><td data-bbox="443 277 1023 349">Laboratory / Clinical Work / Oral presentations</td><td data-bbox="1023 277 1195 349">30%</td></tr><tr><td data-bbox="443 356 1023 394">Participation and attendance</td><td data-bbox="1023 356 1195 394">10%</td></tr><tr><td data-bbox="443 400 1023 439">Total</td><td data-bbox="1023 400 1195 439">100%</td></tr></table>	Final Examination	60%	Laboratory / Clinical Work / Oral presentations	30%	Participation and attendance	10%	Total	100%
Final Examination	60%								
Laboratory / Clinical Work / Oral presentations	30%								
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Language	English								