Course Title	Pediatric Dentistry II		
Course Code	DES430		
Course Type	Compulsory		
Level	Bachelor (1st Cycle)		
Year / Semester	4 <sup>th</sup> year / 7 <sup>th</sup> semester		
Teacher's Name	TBA		
ECTS	Lectures / week 1 hr / 13 weeks + exam week 2 hrs / 13 weeks		
Course Purpose and Objectives  Learning Outcomes	<ul> <li>This course is a continuation of the Pediatric Dentistry I course. It includes a lecture and laboratory component.</li> <li>The objective of the course is for the student to: <ul> <li>Learn foundation knowledge on the principles, terminology, instruments, materials and techniques utilized in the practice of Pediatric Dentistry</li> <li>Apply therapeutic techniques for caries and pulpal management of primary teeth, in the laboratory under clinical stimulation.</li> </ul> </li> <li>In the practical component, the students will have demonstrations and perform a series of exercises in typodonts, for clinical procedures used in Pediatric Dentistry.</li> </ul>		
	<ul> <li>Discuss the advantages and techniques for tooth isolation.</li> <li>Discuss options and indications for early caries management of occlusal and interproximal lesions (monitoring and topical fluorides, sealant, preventive resin restorations, resin infiltration by selecting).</li> <li>Describe the anatomic differences between primary and permanent teeth and how these differences affect the preparation for composites in primary teeth.</li> <li>Select the appropriate restorative materials for each type of tooth, lesions and restoration.</li> <li>Discuss the different options for pulpal management in primary teeth (direct and indirect pulp capping, pulpotomy and pulpectomy in primary teeth) as well as the indications, techniques and materials used.</li> <li>Discuss the indications and techniques for primary teeth esthetic crowns.</li> </ul>		

Describe the indications and technique (preparation, adaption and cementation) for stainless steel crowns in primary and permanent teeth. Describe the indications and application techniques for splinting after dental trauma. Discuss the anti-caries effectiveness of silver diamine fluoride. indications and techniques. Describe the indications for space maintenance following premature loss of a primary tooth, as well as selection of the appropriate appliances for each case. Be able under clinical simulation to: Isolate anterior and posterior teeth, in the typodont using the rubber dam. Diagnose caries, occlusally and interproximally, using the ICDAS clinical and radiographic criteria. Apply sealants in typodont and natural teeth. Perform preventive resin restorations in typodont and natural teeth. Prepare Class II and III composite resin, in typodont primary teeth. Perform pulpotomy in primary teeth. Prepare and adapt a stainless steel crown in typodont primary teeth. Apply a splint for dental trauma management. Prerequisites None Co-requisites None Lectures: Course Content Introduction to the Pediatric Dentistry simulation lab experience. Learn about the advantages of the application of rubber dam and the different ways of isolation in Pediatric Dentistry for posterior and anterior teeth. Learn about early caries; diagnosis and management of occlusal lesions in Pediatric Dentistry with sealants and Preventive Resin Restorations (PRR); indications and application techniques. Learn about early caries; diagnosis and management of buccal and interproximal lesions in Pediatric Dentistry with resin infiltration and sealants; indications and application techniques. Learn about the anatomic differences between primary and permanent teeth and how these affect cavity preparations and pulpal management. Learn about selection of appropriate restorative materials in Pediatric Dentistry. Success and durability of composites, glass ionomers and stainless steel crowns. Esthetic restorations for primary anterior teeth. Learn about the indications, preparation technique and placement of preformed stainless crowns in primary and

permanent teeth.

	<ul> <li>Learn about pulpal management in primary teeth. Indications, materials and techniques (indirect and direct pulp capping and interim therapeutic restorations) in primary teeth.</li> <li>Learn about pulpal management in primary teeth. Indications, technique, dressing materials for pulpotomy and pulpectomy in primary teeth.</li> <li>Learn about the indications and application techniques for splinting after dental trauma.</li> <li>The anti-caries effectiveness of silver diamine fluoride, indications and application technique.</li> <li>Learn about space maintenance in primary and mixed dentition.</li> <li>Labs:</li> <li>Preparation of typodonts with artificial teeth, and place in acrylic base natural teeth (one primary molar and two permanent posterior with early caries).</li> <li>Training in isolation with different isolation techniques.</li> <li>Diagnosis of early caries lesions and perform sealant and PRR on natural teeth.</li> <li>Diagnosis of early interproximal caries lesions and apply sealant on natural teeth. Demonstration of resin infiltration application.</li> <li>Preparation of Class II cavities for composites in primary molars.</li> <li>Preparation of Class III cavities for composites and fill with composite.</li> <li>Preparation of Class III cavities for composites in primary teeth.</li> <li>Preparation of typodont primary teeth for stainless steel crowns (SSC).</li> <li>SSC fitting and cementation.</li> <li>Exercise on performing pulpotomy in primary tooth.</li> <li>Application of a trauma splint for tooth stabilization after dental trauma under clinical stimulation.</li> <li>Demonstration of band adaptation, impression and fabrication of a band and loop space maintainer.</li> </ul>
Teaching Methodology	Face-to-face
Bibliography	Koch G, Poulsen S, Espelid I, Haubek D. Pediatric Dentistry: A Clinical Approach. Oxford: Wiley Blackwell, 2017.  Dean JA. McDonald and Avery's Dentistry for the Child and Adolescent. St. Louis: Elsevier, 2015.  European Academy of Pediatric Dentistry Policies and Guidelines <a href="https://www.eapd.eu/index.php/policies-and-guidelines">https://www.eapd.eu/index.php/policies-and-guidelines</a> American Academy of Pediatric Dentistry Oral Health Policies and

	Recommendations (The Reference Manual in Pediatric Dentistry)		
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