

Course Title	Dental Anesthesiology				
Course Code	DES385				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	3 <sup>rd</sup> year / 6 <sup>th</sup> semester				
Teacher's Name	TBA				
ECTS	1	Lectures / week	1 hr / 13 weeks + exam week	Laboratories / week	2 hrs / 13 weeks
Course Purpose and Objectives	<p>The Purpose and the objectives of this course are intended to familiarize students with the theoretical and clinical application of dental anaesthesia, selecting and evaluating the anaesthesia technique, which will be applied in each case, both in relation to the anaesthetic substance used and the available resources, as well as the overall health of the patient.</p> <p>In addition, students will be able to deal with patients with systemic diseases and the local or general complications that can occur during and after the administration of anaesthesia in Dentistry.</p> <p>The course is designed to integrate with lectures, laboratories, small group discussions and tutorials to enable students to apply that knowledge to properly select and administer dental anaesthesia.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Describe the basic anatomical sites of the oral cavity and the jaws for performing dental anaesthesia.</li> <li>• Discuss the various instrumentation and tools for performing local anaesthesia.</li> <li>• List the local anaesthetic drugs and their combination with vasoconstrictors.</li> <li>• Perform local anaesthesia techniques in dental models.</li> <li>• Discuss the alternative anaesthesia techniques of the central nervous system as well as extraoral anaesthesia techniques of specific nerves.</li> <li>• Explain the causes of failure in local anaesthesia.</li> <li>• Manage localized complications related to local anaesthesia.</li> </ul>				

	<ul style="list-style-type: none"> <li>• Recognize manage general complications related to local anaesthesia (allergic reaction, overdose, fainting, cardiac arrest).</li> <li>• Provide local anaesthesia to patients with systemic diseases.</li> <li>• Laboratory skills:</li> <li>• A-3-dimensional visualization of anatomical structures in head and neck to familiarize with landmarks of different local anaesthetic techniques.</li> <li>• Recognize the armamentarium and the different types of local anaesthetic agents.</li> <li>• Introduction into clinical administration of local anaesthesia.</li> <li>• Practice local anaesthetic techniques in dental models.</li> </ul>		
Prerequisites	None	Co-requisites	None
Course Content	<p>In this regard the students will be familiar with the following Dental Anesthesiology Modules:</p> <ul style="list-style-type: none"> <li>• Introduction to Dental Anaesthesia</li> <li>• Pharmacology I – Local Anaesthetic drugs</li> <li>• Pharmacology II – Vasoconstrictors</li> <li>• Anatomy of the Trigeminal Nerve</li> <li>• The Armamentarium – Instrumentation and tools of administering local anaesthesia</li> <li>• Clinical local anaesthetic techniques for Oral and Maxillofacial region</li> <li>• Patient risk assessment, emergency drugs and equipment</li> <li>• Consideration of special needs and medically compromised patients- Indication and contraindication of dental anaesthesia</li> <li>• Use of Nitrous Oxide and Intravenous Sedation for dental anxiety/phobia</li> <li>• Local and systemic adverse effects of dental anaesthesia</li> <li>• General Anaesthesia</li> </ul>		
Teaching Methodology	Lectures, Face-to-Face, Small Group Discussions, Tutorials, and individual/peer reflection		
Bibliography	<p>Textbook  Malamed SF. Handbook of Local Anesthesia. St. Louis: Elsevier Mosby, 2019.</p> <p>Additional studying  Bosack RC, Lieblich S. Anesthesia Complications in the Dental Office. Hoboken, New Jersey: Wiley Blackwell, 2015.</p>		

Assessment	<table border="1"><tr><td data-bbox="443 232 1023 271">Final Examination</td><td data-bbox="1023 232 1197 271">60%</td></tr><tr><td data-bbox="443 271 1023 309">Lab Report / Oral presentations</td><td data-bbox="1023 271 1197 309">30%</td></tr><tr><td data-bbox="443 309 1023 347">Participation and attendance</td><td data-bbox="1023 309 1197 347">10%</td></tr><tr><td data-bbox="443 347 1023 385">Total</td><td data-bbox="1023 347 1197 385">100%</td></tr></table>	Final Examination	60%	Lab Report / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English								