

Course Title	Operative Dentistry I				
Course Code	DES250				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	2 <sup>nd</sup> year / 4 <sup>th</sup> semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	2hrs / 13 weeks + exam week	Laboratories / week	2hrs / 13 weeks
Course Purpose and Objectives	<p>This course includes a lecture and laboratory component. The theoretical component is designed to give the students foundation knowledge of the principles, terminology, instruments, materials and techniques utilized in the practice of Operative Dentistry. The principles of tooth preparations and the basics of single tooth restorations in direct restorative materials such as amalgam and composite resin, to restore pathologically damaged tooth structure due to dental caries, fracture or trauma, will be presented.</p> <p>All aspects of Operative Dentistry interventions will be applied on the basis of a clear understanding of the aetiology and preventive aspects of caries and caries management by risk assessment.</p> <p>In the practical component, the students will have demonstrations and perform a series of exercises in typodonts, utilizing current instrumentation and materials. They will perform different tooth preparations on artificial teeth, appropriate for the restorative material to be used, with the goal of the best possible longevity and the maximum possible tooth structure conservation. They will also acquire knowledge on the appropriate restorative material manipulation and placement techniques.</p> <p>This course prepares the students for further preclinical and simulation training in phantom heads with the ultimate goal of performing Operative Dentistry procedures in a supervised clinical setting.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Define operative dentistry and its role in health care sciences.</li> <li>• List advantages, disadvantages, benefits and risks of various</li> </ul>				

	<p>operative dentistry procedures.</p> <ul style="list-style-type: none"> <li>• Identify, describe and properly utilize rotary and hand dental instruments.</li> <li>• Describe the classes of cavities in relation to carious lesions and describe G.V. Black's classification system.</li> <li>• Use the proper terminology and nomenclature in operative dentistry.</li> </ul>		
Prerequisites	Dental Morphology	Co-requisites	None
Course Content	<p>In that regard, students will familiarize themselves with the following Modules:</p> <ul style="list-style-type: none"> <li>• Course introduction.</li> <li>• Diseases of the Dental hard tissues.</li> <li>• Dental caries.</li> <li>• Caries management by risk assessment.</li> <li>• Nomenclature. Classes of cavities.</li> <li>• Hand and rotary dental instrument identification and use.</li> <li>• Principles of tooth preparation.</li> <li>• Class I, II and V preparation for amalgam restorative material.</li> <li>• Amalgam safety.</li> <li>• Amalgam placement.</li> </ul>		
Teaching Methodology	Face-to-face		
Bibliography	<p>Sturdevant's Art and Science of Operative Dentistry; Andre V. Ritter, Lee W. Boushell, Ricardo Walter; 7<sup>th</sup> Edition; 2018; Elsevier Inc. St. Louis, Missouri, 63043, USA. ISBN: 978-0-323-47833-5.</p> <p>Craig's Restorative Dental Materials; Ronald L. Sakaguchi, Jack L. Ferracane, John M. Powers; 14<sup>th</sup> Edition; 2018; Elsevier Inc. St. Louis, Missouri, 63043, USA. ISBN: 978-0-323-47821-2.</p> <p>Additional reading</p> <p>Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach; Thomas J Hilton, Jack L. Ferracane, James Broome; 4<sup>th</sup> Edition; 2013; Quintessence Publishing Co Inc, Hanover Park, IL, 60133, USA. ISBN: 978-086715-528-0.</p>		

Assessment	<table border="1"><tr><td data-bbox="443 230 1023 271">Final Examination</td><td data-bbox="1023 230 1197 271">60%</td></tr><tr><td data-bbox="443 271 1023 311">Lab Report / Oral presentations</td><td data-bbox="1023 271 1197 311">30%</td></tr><tr><td data-bbox="443 311 1023 351">Participation and attendance</td><td data-bbox="1023 311 1197 351">10%</td></tr><tr><td data-bbox="443 351 1023 392">Total</td><td data-bbox="1023 351 1197 392">100%</td></tr></table>	Final Examination	60%	Lab Report / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English								