

Course Title	Endodontics III				
Course Code	DES350				
Course Type	Compulsory				
Level	Bachelor (1 <sup>st</sup> Cycle)				
Year / Semester	3 <sup>rd</sup> year / 6 <sup>th</sup> semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	1 hours/ 13 weeks + exam week	Laboratories / week	2 hrs / 13 weeks
Course Purpose and Objectives	<p>Purpose and Objectives:</p> <p>This course follows the Endodontics II course and it aims to familiarise students with the procedure of non surgical root canal treatment and re-treatment in human extracted teeth.</p> <p>In this course, students get to practice the steps of non-surgical root canal treatment and retreatment as well as the temporary restoration, in human extracted teeth in a clinically simulated set up.</p> <p>The course offers lectures, group discussions and preclinical laboratory exercises.</p>				
Learning Outcomes	<p>Upon successful completion of the course students will be able to:</p> <ul style="list-style-type: none"> <li>• Describe the more advanced instruments in endodontics; different types of hand files, engine-driven instruments (rotary and reciprocating files)</li> <li>• Practice endodontic radiographs with the paralleling technique throughout the simulated endodontic treatment</li> <li>• Describe and perform access cavities in human extracted upper and lower anterior and posterior teeth</li> <li>• Describe and practice working length determination in human extracted single and multirooted teeth</li> <li>• Describe and perform the chemomechanical preparation in both upper and lower human extracted teeth</li> <li>• Describe and perform obturation with the cold lateral compaction technique</li> <li>• Describe and perform temporary restorations in endodontically treated human extracted teeth</li> <li>• Discuss and perform simple non surgical retreatment in artificial and human extracted single rooted teeth.</li> </ul>				

	<ul style="list-style-type: none"> <li>• Discuss and recognize more advanced clinical cases of pulpal and periapical diseases</li> </ul>		
Prerequisites	None	Co-requisites	None
Course Content	<p>In that regard, students will familiarize themselves with the following Modules in Endodontics:</p> <ul style="list-style-type: none"> <li>• Advanced and modified design of access cavities</li> <li>• Detailed description of different types of hand files</li> <li>• Detailed description of engine-driven instruments (rotary)</li> <li>• Detailed description of different designs of engine-driven instruments (reciprocating)Irrigating solutions</li> <li>• Intracanal medication/dressing</li> <li>• Sealers and modern Bioceramic materials</li> <li>• Restoration of endodontically treated teeth</li> <li>• Diagnostic methodology in endodontics in detail (radiographic findings)</li> <li>• Diagnostic methodology in endodontics in detail (clinical findings, sensibility tests)</li> <li>• Treatment planning in endodontics</li> <li>• Pain management in endodontics</li> </ul> <p>Laboratory exercises:</p> <ul style="list-style-type: none"> <li>• Selection of human extracted teeth</li> <li>• Demonstration and practice of mounting of human extracted teeth</li> <li>• Training in endodontic radiography</li> <li>• Demonstration and practice on access cavities in upper and lower incisors (human extracted teeth)</li> <li>• Demonstration and practice on access cavities in upper and lower canines (human extracted teeth)</li> <li>• Demonstration and practice on access cavities in upper premolars (human extracted teeth)</li> <li>• Demonstration and practice on access cavities in lower premolars (human extracted teeth)</li> <li>• Demonstration and practice on access cavities in upper molars (human extracted teeth)</li> <li>• Demonstration and practice on access cavities in lower molars (human extracted teeth)</li> <li>• Demonstration and training in working length determination</li> <li>• Demonstration and practice on chemomechanical preparation; Gates Glidden burs, and hand files (artificial teeth)</li> <li>• Demonstration and practice on obturation with cold lateral condensation technique (artificial teeth)</li> <li>• Training in working length determination</li> </ul>		

	<ul style="list-style-type: none"> <li>• Demonstration and practice on chemomechanical preparation; hand files and rotary instruments (human extracted teeth)</li> <li>• Demonstration and practice on obturation with cold lateral condensation technique (human extracted teeth)</li> <li>• Demonstration and practice temporary restoration in human extracted teeth</li> </ul>								
Teaching Methodology	Face-to-face								
Bibliography	<p>Torabinejad M, Walton R. Endodontics: Principles and Practice. Philadelphia: Saunders, 2014.</p> <p>Lars Bjorndal, Lise-Lotte Kirkevang, John Whitworth. Textbook of Endodontology 3rd edition, Willey-Blackwell 2018.</p>								
Assessment	<table border="1"> <tr> <td>Final Examination</td> <td>60%</td> </tr> <tr> <td>Assignments</td> <td>30%</td> </tr> <tr> <td>Class Participation and Attendance</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Final Examination	60%	Assignments	30%	Class Participation and Attendance	10%		100%
Final Examination	60%								
Assignments	30%								
Class Participation and Attendance	10%								
	100%								
Language	English								