

Course Title	Endodontics II				
Course Code	DES305				
Course Type	Compulsory				
Level	Bachelor (1 st Cycle)				
Year / Semester	3 rd year / 5 th semester				
Teacher's Name	TBA				
ECTS	4	Lectures / week	2 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 I course and it aims to continue the introduction in the field of endodontics and in particular in the procedure of non surgical root canal treatment.</p> <p>Purpose of Endodontics II is to familiarise students with the steps of non-surgical root canal treatment :preparation for root canal treatment, access cavity, working length determination, chemomechanical preparation, and obturation of root canal.</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"> • Describe the basic instruments in endodontics; different types of hand files (Stainless Steel, and Nickel Titanium K files, Gates Glidden burs) • Demonstrate proficiency in taking endodontic radiographs with the paralleling technique • Describe and perform access cavities in artificial upper and lower anterior and posterior teeth • Perform working length determination in artificial single and multicoated teeth • Perform the chemomechanical preparation in both upper and lower artificial teeth • Perform obturation with the cold lateral compaction technique in artificial teeth • Discuss and recognise clinical cases of pulpal and periapical diseases 				

Prerequisites	None	Co-requisites	None
Course Content	<p>In that regard Students will be familiarized themselves with the Following Modules in Endodontics:</p> <ul style="list-style-type: none"> • Overview of endodontic treatment • Armamentarium in endodontic treatment; Basic equipment • Endodontic radiography • Morphology of upper and lower teeth • Access cavity preparation • Determination of the working length • Chemomechanical preparation/Cleaning and Shaping; Apical Coronal approach (Step Back technique, Standardized technique) • Chemomechanical preparation/Cleaning and Shaping; Coronal Apical approach (Step Down technique, Crown Down technique) • Chemomechanical preparation/Cleaning and Shaping;Irrigation • Obturation of the root canal ; biological principles, introduction to filling materials and cold lateral compaction • Interappointment medication • Clinical and radiographic correlation <p>Laboratory exercises:</p> <ul style="list-style-type: none"> • Introduction to the basic endodontic armamentarium • Rubber dam isolation anterior teeth; single and multiple teeth • Rubber dam isolation posterior teeth; single and multiple teeth • Training in endodontic radiography • Demonstration and practice on access cavities in upper and lower incisors (artificial teeth) • Demonstration and practice on access cavities in upper and lower canines (artificial teeth) • Demonstration and practice on access cavities in upper premolars (artificial teeth) • Demonstration and practice on access cavities in lower premolars (artificial teeth) 		

	<ul style="list-style-type: none"> • Demonstration and practice on access cavities in upper molars (artificial teeth) <p>Demonstration and practice on access cavities in lower molars (artificial teeth)</p> <p>Demonstration and training in working length determination</p> <p>Demonstration and practice on chemomechanical preparation; Gates Glidden burs, and hand files (artificial teeth)</p> <p>Demonstration and practice on obturation with cold lateral condensation technique (artificial teeth)</p>								
Teaching Methodology	Face-to-face, Lectures, Practical exercises on artificial teeth, Case Presentations, Simulated patients								
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>Lab Report / Oral presentations</td> <td>30%</td> </tr> <tr> <td>Participation and attendance</td> <td>10%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </table>	Final Examination	60%	Lab Report / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English								