

Course Title	Dental Radiology I				
Course Code	DES275				
Course Type	Compulsory				
Level	Bachelor (1 st Cycle)				
Year / Semester	2 nd year / 4 th semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	2 hrs / 14 weeks	Laboratories / week	2 hrs / 13 weeks
Course Purpose and Objectives	To provide knowledge on the function of X-rays and their diagnostic properties and biologic effects and the operation of the dental X-rays machine and make intra-oral radiographs.				
Learning Outcomes	Upon successful completion of this course students should be able to: <ul style="list-style-type: none">• Describe the function of X-rays, their diagnostic properties and biologic effects.• Operate the dental X-rays machine and make intra-oral radiographs.• Recognize radiographic errors and correction strategies.				
Prerequisites	None		Co-requisites	None	
Course Content	<p>Lectures:</p> <ul style="list-style-type: none">• Introduction to Dental Radiology - History of X-rays and types of radiations.• The X-ray machine. The production of X-rays. Interactions of x-rays with matter.• Properties of X-rays. Factors affecting the intensity of the X-rays beam.• Geometric properties of X-rays. Radiologic image characteristics, density, brightness and contrast.• X-rays image detectors and image recording media.• Intra-oral radiologic examinations.• Radiation biology radiation safety and protection.• Intra-oral radiographic anatomy of maxilla and mandible.• Panoramic radiology technique and errors.• Panoramic radiographic anatomy.• Other extra-oral radiologic examinations.• Review for final examination.				

	<p>Lab exercises:</p> <ul style="list-style-type: none"> • Acquaintance with the digital image detectors. • Intra-oral radiologic technique. • Digital detector processing. • Dental radiographic anatomy. • Panoramic radiology positioning errors and correction. 								
Teaching Methodology	Face-to-face								
Bibliography	Mallya SM, Lam EWN. White and Pharoah's Oral Radiology: Principles and Interpretation. St. Louis: Elsevier, 2018.								
Assessment	<table> <tr> <td>Examinations</td><td>60%</td></tr> <tr> <td>Laboratory / Clinical Work / Oral presentations</td><td>30%</td></tr> <tr> <td>Class participation and attendance</td><td>10%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </table>	Examinations	60%	Laboratory / Clinical Work / Oral presentations	30%	Class participation and attendance	10%	Total	100%
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