

Course Title	Digital Dentistry and Digital Planning				
Course Code	DES340				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	3 rd year / 5 th semester				
Teacher's Name	TBA				
ECTS	4	Lectures / week	2hrs / 13 weeks + exam week	Laboratories / week	3hrs / 13 weeks
Course Purpose and Objectives	<p>This course provides an efficient method for patient care as well as presents an innovative method for dental pre-clinical and clinical education. It also provides a comprehensive overview on how digital dental technology helps better diagnose and treat patients with various clinical needs, from restorative dentistry to implant therapy to orthodontics and beyond.</p> <p>In addition, it provides a systematic approach to learn about incorporating digital impression systems and CAD/CAM technology into the dental practice.</p> <p>The focus of this course is to discuss the benefits and drawbacks of these digital technologies and how digital dentistry can be brought into the dental practice.</p>				
Learning Outcomes	<ul style="list-style-type: none"> • Upon successful completion of this course students should be able to: • Demonstrate the decision-making process for choosing the appropriate diagnosis system and tools for the patient. • Discuss available digital impression and CAD/CAM technologies • Understand how preparation design affects the fabrication of milled Restorations • Plan and design CAD/CAM single-tooth restorations • Understand the materials available for chairside milled restorations • Demonstrate proficiency in workflows to implement CAD/CAM technologies into the practice. 				

Prerequisites	None	Co-requisites	None				
Course Content	<p>In that regard, students will familiarize themselves with the following Modules:</p> <ul style="list-style-type: none"> • Scanning prepared teeth • Preparation of a tooth for a crown and an onlay • Digital Designing of the restorations on the Cad-Cam system • Choosing the right material for each restoration • Milling the restorations • Fitting and polishing the restorations 						
Teaching Methodology	Face-to-face, Lectures, Computer-assisted learning(CAL)						
Bibliography	<p>Textbooks</p> <p>1.Clinical Applications of Digital Dental Technology By Radi Masri, Carl Driscoll WILEYBlackwell 2015</p> <p>2.DIGITAL RESTORATIVE DENTISTRY By Faleh Tamimi and Hiroshi Hirayama Springer 2019</p> <p>3.FUNDAMENTALS OF CAD/CAM DENTISTRY by Jonathan L.Ferencz and Nelson R.F.A Silva American College of Prosthodontists 2018</p>						
Assessment	<p>Final Examination</p> <p>Lab Report / Oral presentations</p> <p>Participation and attendance</p> <p>Total</p>	<table border="1"> <tr> <td>60%</td> </tr> <tr> <td>30%</td> </tr> <tr> <td>10%</td> </tr> <tr> <td>100%</td> </tr> </table>	60%	30%	10%	100%	
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Language	English						