

Course Title	Fixed Prosthodontics II				
Course Code	DES312				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	3 rd year / 5 th semester				
Teacher's Name	TBA				
ECTS	4	Lectures / week	2 hrs / 13 weeks + exam week	Laboratories / week	3 hrs / 13 weeks
Course Purpose and Objectives	<p>Prosthodontics is the branch of dentistry pertaining to the restoration and maintenance of oral function, comfort, speech, appearance and health of the patient by the restoration of natural and/or missing teeth and craniofacial tissues with artificial substitutes.</p> <p>This course is designed to present foundational information and skill development in contemporary fixed prosthodontics. The basic principles and philosophies of restoring and replacing teeth using fixed cast, ceramo-metal, metal, zirconia and all ceramic restorations will be introduced. The examination, treatment planning and preparation of teeth will be emphasized. The use of appropriate dental materials, impression techniques, models and dies fabrication and temporization techniques will be presented.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Discuss the need for fixed prosthodontic restorations. • Describe the most common treatment options for fixed prosthodontic rehabilitation. • Analyse the overall dental problems of the patient and relate them to the specific prosthetic needs. • Apply and analyse different methods to be able to recreate an aesthetic and bite-functional solid construction for the patient. • Account for clinical aspects concerning the effects of different materials and combinations of materials in crown and bridge therapy and be able to read and analyse radiographs with fixed prosthetic constructions. 				

	<p>At the conclusion of this Simulation course, the student should be able also to:</p> <ul style="list-style-type: none"> • Prepare teeth (anterior and posterior) for full metal and monolithic zirconia crowns • Prepare teeth (anterior and posterior) for ceramo-metal crowns • Prepare teeth (anterior and posterior) for all ceramic (porcelain) crowns • Produce an accurate final impression utilizing polyvinylsiloxane (or other) impression material construct a clinically acceptable temporary restoration using bisacryl or acrylic material • Employ die stone(s) and other gypsum products to produce accurate dies and models for articulation accurately trim dies 		
Prerequisites	None	Co-requisites	None
Course Content	<p>In the form of Lectures, students will cover the following topics:</p> <ul style="list-style-type: none"> • Introduction in clinics of prosthetic dentistry • Introduction to laboratory safety measures • Introduction to cast restorations • Introduction to clinical instruments including Burs Metal Crowns & Partial crowns including Veneers • All ceramic (History of porcelain – feldspathic to emax) and zirconia crowns • Temporary and Provisional Crowns • Impression materials • Soft tissue management • Fixed Partial Denture (Conventional Bridges) • Resin-Bonded bridges • Introduction to articulators • Jaw Relationship in crown and Bridge • Evaluation, cementation / bonding of indirect restorations (crown & bridges) • Clinical Assessment, diagnosis and treatment planning Analysis and treatment planning of a case • Toothwear (attrition, acid dissolution/erosion, abrasion, abfraction) • Introduction to occlusion • Pre and post-operative care (for both patient and dentist). • Indications and contraindications for prosthetic treatment 		

	<ul style="list-style-type: none"> • Occlusion part 2 with incorporated Facebow (clinical – demonstration) 								
Teaching Methodology	Face-to-face, Lecture, Practical exercises, Quizzes, Case Presentations, Simulated patients, Rotations								
Bibliography	<p>Shillingburg HT, Sather Jr DA, Wilson Jr EL, Cain JR, Mitchell DL, Blanco LJ, Kessler JC. Fundamentals of Fixed Prosthodontics. Hanover Park, Illinois: Quintessence Publishing, 2012.</p> <p>Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics. St. Louis: Elsevier, 2015.</p> <p>Hagiwara Y. Color Atlas of Fixed Prosthodontics. Hanover Park, Illinois: Quintessence Publishing, 2013.</p> <p>Additional reading:</p> <p>Journal Articles will be provided throughout the semester</p> <p>O'Brien WJ. Dental Materials and Their Selection. Hanover Park, Illinois: Quintessence Publishing, 2008.</p>								
Assessment	<table border="1"> <tr> <td>Final Examination</td> <td>60%</td> </tr> <tr> <td>Laboratory / Clinical Work / 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%	Laboratory / Clinical Work / Oral presentations	30%	Participation and attendance	10%	Total	100%
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