

Course Title	Fixed Prosthodontics I				
Course Code	DES260				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	2 nd year / 4 th semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	2 hrs / 13 weeks + exam week	Laboratories / week	2 hrs / 13 weeks
Course Purpose and Objectives	The objective of this course is to introduce the student to fixed prosthodontics. Learn the basics of the periodontium prior to receiving any fixed prosthesis, familiarize with the different dental materials used and different crowns and preparations. Both through lectures and hand-on sessions.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Discuss the importance of the periodontium (soft and hard tissues) prior to planning for a fixed prosthesis. • Discuss the different dental materials that are available. • Describe the different stages in crown fabrications. • Discuss the different designs for crown preparations. • Show competence on taking impressions. • Show competence on the basic principles of crown preparations. 				
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 to fixed prosthodontics • Clinical Assessment, Diagnosis and Treatment planning (Basic) Planning and preparation for prosthetic dentistry • Caries prevention – diet and saliva + Enamel Homeostasis and the development of caries • Biochemical events in dental plaque 				

	<ul style="list-style-type: none"> • Introduction to periodontal tissues in health and disease – link with prosthodontics • Dental Materials (Dentine bonding, Composite, GIC, Amalgam) – Foundation restorations related to prosthodontics • Dental Materials (luting cements) – Introduction • Impression materials and techniques + trays • Tooth morphology & occlusion (Introduction) • Crown preparation and technology-principles of tooth preparation • Fixed partial dentures (conventional bridges) – elements and construction principles • Evaluation of the fixed partial dentures and cementation • Investing and casting (Fabrication of cast restoration) – Laboratory stages - Working cast and dies • Aesthetic considerations (introduction to lip assessment, smile line, golden proportions, types of gingival biotype etc..) and introduction to shade matching • Posture and finger rest (lecture & hands-on) - combined with application of rubber dam • Introduction to clinical occlusion – Articulators & Facebow
Teaching Methodology	Face-to-face, Lecture, Practical exercises, Quizzes, Case Presentations, Simulated patients, Rotations
Bibliography	<p>Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics. St. Louis: Elsevier, 2015.</p> <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>Additional Reading Hagiwara Y. Color Atlas of Fixed Prosthodontics. Hanover Park, Illinois: Quintessence Publishing, 2013.</p> <p>Additional reading: Journals will be provided throughout the semester O'Brien WJ. Dental Materials and Their Selection. Hanover Park, Illinois: Quintessence Publishing, 2008.</p>

Assessment	<table border="1"> <tr> <td data-bbox="443 232 1023 271">Final Examination</td> <td data-bbox="1023 232 1197 271">60%</td> </tr> <tr> <td data-bbox="443 271 1023 344">Laboratory / Clinical Work / Oral presentations</td> <td data-bbox="1023 271 1197 344">30%</td> </tr> <tr> <td data-bbox="443 344 1023 383">Participation and attendance</td> <td data-bbox="1023 344 1197 383">10%</td> </tr> <tr> <td data-bbox="443 383 1023 421">Total</td> <td data-bbox="1023 383 1197 421">100%</td> </tr> </table>	Final Examination	60%	Laboratory / Clinical Work / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Total	100%								
Language	English								