

Course Title	Fixed Prosthodontics III				
Course Code	DES355				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	3 rd year / 6 th semester				
Teacher's Name	TBA				
ECTS	5	Lectures / week	1 hr / 13 weeks + exam week	Laboratories / week	4 hrs / 13 weeks
Course Purpose and Objectives	This course is designed to enhance the students' knowledge and skills in contemporary fixed prosthodontics. The Basic concepts in implant dentistry will be introduced.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Discuss the reasons for fixed options of replacing anterior and posterior missing teeth. • Distinguish between and choose for each case appropriate therapies to achieve predictable outcomes. • Demonstrate proficiency in restorations for patients in a predictable manner. • Describe factors affecting longevity of restorations. • Evaluate when a tooth is restorable and when not. • Discuss how to manage trauma cases. • Discuss issues of Implant Dentistry. <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 ceramo-metal crowns. • Prepare teeth (anterior and posterior) for all ceramic (porcelain) crowns. • Prepare teeth for conventional bridges. • Produce an accurate final impression utilizing polyvinylsiloxane (or other) impression material construct a clinically acceptable temporary restoration using bisacryl or acrylic material. • Visit a local laboratory and learn the different procedures in the manufacturing of indirect prostheses. 				

	<ul style="list-style-type: none"> • Carry out a clinical assessment and more specifically an extra-oral and intra-oral examination with emphasis on occlusion. 		
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"> • Temporomandibular disorder (TMJ – anatomy, function and surgical management) • Splint Therapy • Injuries and treatment (prosthetic) • Discuss types of dental trauma and restorative options. • Trauma guidelines • Cores for teeth with vital pulps • Cores for teeth that have been root canal treated • Discuss clinical stages in nayyar core, direct and indirect post preparations • Management of teeth with extensive loss of tooth tissue Prognosis of teeth / tooth restorability (Tooth restorability Index) • Ceramic veneers vs Composite – including analysis of literature • Colour management and shade management • Lab prescription (hands on demonstration how to complete two lab prescriptions on two cases – indicating materials, teeth involved, pontic design etc...) • Failures in crowns and bridges (endodontic failures, prosthetic failures, biological failures, caries). • Introduction to implants (surgical and prosthetic) • Teeth vs Implants – Analysis of papers • Clinical assessment 2 and treatment planning • Case discussions including diagnosis and management <p>In the form of clinical skills, students will have the chance to practice in the simulation lab the following topics:</p> <ul style="list-style-type: none"> • Crown preparation (ceramo-metal crown) for tooth 25 and provisionalisation • Preparation for conventional fixed-fixed bridge involving teeth 14-16 and provisionalisation • Hands on core construction + crown preparation zirconia (Tooth No.46) 		

	<ul style="list-style-type: none"> • Crown preparation (all ceramic) for tooth 14 & 15 and provisionalisation • Crown preparation (all ceramic) for tooth 31 & 41 and provisionalisation • Crown preparation (all ceramic) for tooth 11 & 21 and provisionalisation • Bridge preparation teeth 21 & 23 (zirconia) & provisional bridge • Bridge preparation 33 & 43 (Ceramo-metal) & provisionalisation • Impression taking (including tray modifications)– using both alginate and polyvinyl siloxane • Occlusal analysis on each other (teeth charting, guidance – protrusion and excursions, incisal relationship, skeletal relationship, clinical findings etc...) <p>Besides lectures and laboratory session the student will also have the chance to visit the local dental laboratory that the University is collaborating with and learn how each process happens</p>								
Teaching Methodology	Face-to-face, Lectures, Practical exercises, Case Presentations, Simulated patients, Problem Based Learning, Small Group Discussions								
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>Journals 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" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Final Examination</td> <td style="width: 30%; text-align: center;">60%</td> </tr> <tr> <td>Laboratory / Clinical Work / Oral presentations</td> <td style="text-align: center;">30%</td> </tr> <tr> <td>Participation and attendance</td> <td style="text-align: center;">10%</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">100%</td> </tr> </table>	Final Examination	60%	Laboratory / Clinical Work / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English
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