



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
Second Semester 2013-2014
Course Syllabus

Course Information	
Course Title	Fixed Prosthodontics I
Course Number	TDEN 232
Prerequisites	TDEN 213
Course Coordinator	Alina Al Twal
Lecture and Lab time and location	
Course Instructors	Alina Al Twal
Office Location	Applied Medical Sciences Faculty building, second floor
Office Phone	02 7201000/extension 26885
Office Hours	(subject to change and will be reconfirmed during the lectures)
E-mail	eqaltwal@just.edu.jo
Teaching Assistants	Supervisors of dental technology laboratory
Course Description	
<p>This course is designed to the undergraduate students at the 2nd year and it is Three Credit hours (1Cr Theoretical, 2 Cr Practical). The course will provide the students with the necessary training on the various laboratory steps involved in the fabrication of metallic fixed crowns and bridges. In addition to a theoretical background which includes explanations to technical and clinical aspects of fixed partial dentures, crowns, post and core and temporary crowns .</p>	
Text Book	
Title	Fundamentals of Fixed Prosthodontics
Author(s)	H.T. Shillingburg
Publisher	Quintessence
Year	1997
Edition	3 rd
Other references	John E. Rhoads, Kenneth D. Rudd, Robert M. Morrow. Dental laboratory Procedure for Fixed Prosthodontics Mosby,1985, 2nd edition

Assessment		
Assessment	Expected Due Date	Percentage
First Exam	Week 5	10%
Second Exam	Week 10	10%
Final Exam (practical and theory)	To be announced	40% (15% theory, 25 % practical)
Continuous laboratory assessment	Throughout the semester	40%

Course Objectives	Weights
1. Provide the students with sufficient theoretical background to help them with the laboratory steps involved in the fabrication of metal crowns, metal fixed partial dentures and post-crowns.	40 %
2. Provide training on the various laboratory steps involved in the fabrication of metal crowns and bridges Practical skills	60 %

Teaching & Learning Methods
<p>There will be a weekly lecture for 1 hour presented with power point using computer and data show and two labs sessions for 6 hours every week during which a demonstration will be given followed by individual supervised lab sessions. Students will perform two finished metal crowns from A to Z at lab, and one bridge. At the end of each lab, the students will be assessed by dental technology supervisors.</p> <p>Teaching duration:</p> <ul style="list-style-type: none"> • 14 lectures, one hour each including the first and second exams • Two weekly lab secessions for 6 hours

Learning Outcomes: Upon successful completion of this course, students will be able to	
outcome	Reference(s), Handouts
Understand the basic knowledge of fixed prosthodontics and indications for crowns, bridges and posts.	Introduction to crown and bridge work
Understanding teeth preparation methods and principles	Clinical introduction to crown and bridge work (preparation and impression materials)
Understanding occlusion	Occlusion
Be familiar with the different types of articulators	Articulators
Understanding the principles of cast preparation and be familiar with the different systems used in producing working cast and dies	Working cast and dies
understanding the principles of crown and bridge wax up and different wax patterns	Wax pattern
understanding all the processing procedures used in fabrication of crown and bridge work	Investing and casting, Finishing and polishing
Understanding pontic design	Pontic design and fabrication
Understanding temporary restorations and be familiar with the different materials and techniques used in the fabrication of temporary restoration	Provisional restorations
Understanding the indications and principles of post and core	Post crown

Course content (theory)				
Week	Date	Topic	lecturer	Chapter in Textbook (handouts)
1		Introduction to crown and bridge work	Alina Al Twal	Chapter 1
2		Clinical introduction to crown and bridge work (preparation and impression materials)	Alina Al Twal	Handouts
3		Occlusion	Alina Al Twal	Chapter 3,5
4		Articulators	Alina Al Twal	Handouts
5		First Exam	Alina Al Twal	
6		Working cast and dies	Alina Al Twal	Chapter 18
7		Wax pattern 1	Alina Al Twal	Chapter 19
8		Wax pattern 2	Alina Al Twal	Chapter 19
9		Investing and casting	Alina Al Twal	Chapter 21
10		Second Exam	Alina Al Twal	
11		Finishing and polishing	Alina Al Twal	Chapter 22
12		Pontic design and fabrication	Alina Al Twal	Chapter 26
13		Post crown	Alina Al Twal	Chapter 13
14		Provisional restorations	Alina Al Twal	Chapter 15
15		Revision	Alina Al Twal,	
		Final Exam	Alina Al Twal,	

Week	Expected Date	Requirement
1		There will be no lab
2		Cast preparation and mounting
3		Sectioning and die preparation
4		Wax up of central
5		Investing of central wax up of molar
6		Divesting of central, Fitting and finishing of central
7		Wax up of molar
8		Continue wax up of molar
9		Spruing and investing of molar
10		Divesting, Fitting and finishing of molar
11		Wax up of bridge
12		Wax up of bridge
13		Wax up of bridge
14		Catch up lab
15		Final practical exam

Additional Notes

Attendance policy:

The student is not allowed to miss more than 10% from the total credit hours of the course
And JUST requires the faculty member to assign ZERO grade (35%) if a student misses 10% of the classes without an excuse or if the student exceed the 20 % absence with excuse.

Exams

- Students are required to sit for the 3 semester examinations (1st, 2nd, and final) in addition to the final practical exam

Cheating during exam will result in dismissal from the exam hall and the student will be penalized according to JUST regulations.

Feedback:

Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail to the following address
eqaltwal@just.edu.jo