

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
First Semester 2016/2017

Course Information	
Course Title	Fixed Prosthodontics II Practical
Course Number	TDEN333
Course coordinator	Maha Alomari, BSc, MDSc
Office Location	Faculty of Applied Medical Sciences/ 2 nd floor
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Office Hours	TBA
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Teaching Assistants	Supervisors of dental technology laboratory

Course Description	
<p>This course is designed to the undergraduate students at the third year and it is three Credit hours (3Cr Practical). The course will provide the students with:</p> <ul style="list-style-type: none"> • The necessary training on the various laboratory steps involved in the fabrication of metal ceramic fixed partial dentures and crowns. 	

Feedback	
<p>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</p>	

Text Book	
No Theory	

Useful references	
1. Contemporary Fixed Prosthodontics. 2006. Rosentiel S F, Land M F & Fujimoto J. 4 th edition. Mosby	
2. Makoto Yamamoto. 1985. Metal Ceramics: Principles and methods of Makoto Yamamoto. 2 nd Edition. Quintessence	
3. Shillingburg H T <i>et al.</i> 1997. Fundamentals of Fixed Prosthodontics. 3 rd Edition. Quintessence	

Course Objectives		Weights
1- To train the students to handle the equipments and materials used in the construction of restorations in the proper way.		20%
2-To provide training on the various laboratory steps involved in the fabrication of the metal-ceramic fixed partial dentures and crowns.		80%
Assessment Policy		
Assessment Type and Expected Due Date	Weight	
Lab Continuous Assessment	60%	
Practical Midterm Exam Week 5/6	10%	
Practical Final Exam Week 15	30%	

Teaching & Learning Methods
<p>There will be a weekly lab for 6 hours during which a demonstration will be given for half an hour, followed by individual supervised lab sessions. Step by step in lab skill application will also be provided.</p> <p>Students will perform a finished two metal-ceramic crowns, and finished one three-unit full metal FPD from A to Z at lab .At the end of each lab they will be assessed by the instructor and dental technology supervisors.</p>

Course Content (Lab)		
Week	Topic	
1	25/9	Cast/Die preparation & mounting
2	2/10	Holiday
3	9/10	fullwax up of posterior bridge
4	16/10	Cont. full wax up of posterior bridge, spruing & investing
5	23/10	Metal finishing of posterior bridge/ full wax up of Central** with rubber index
6	30/10	Metal finishing of posterior bridge/ full wax up of Central** with rubber index
7	6/11	Cut back of Central, spruing & investing
8	13/11	Metal Finishing of Central & opaque application/ waxing of molar
9	20/11	Metal Finishing of Central & opaque application/ waxing of molar
10	27/11	Porcelain build up of Central
11	4/12	Porcelain build up of Central/ metal finishing of Molar & opaque application
12	11/12	Holiday
13	18/12	Porcelain build up of Molar
14	25/12	Holiday
15		Final practical exam

** will be graded as midterm exam

Laboratory continuous assessment sheet	
Requirements	marks
1. Working cast & die prep	(20%)
A- prepared teeth (dies)	
* smooth	/ 1
* finish lines	/ 5
* easily removed	/ 2
B- unprepared dies	
* smooth	/ 1
* easily removed	/ 2
C- cast	
* pins types & position	/ 2
* no damages or broken parts	/ 1
* width & height of cast	/ 2
* horse shaped cast	/ 1
D- base	
* pins & sleeves	/ 1
* stable & easily removed	/ 1
* trimming of base	/ 1
2. Mounting	(10%)
1- pin in midline	/ 1
2- smooth	/ 1
3- stable	/ 1
4- position of cast in articulator	/ 2
5- correct bite	/ 1
6- clean, no excess	/ 2
7- definitive line between plaster & base	/ 2
3- Waxing of posterior bridge	(20%)
1- retainers	
* contour	/ 2
* occlusion & morphology	/ 3
* margins	/ 2
* contact points	/ 2
2- pontic	
* design (B&L) modified ridge lap	/ 2
* contour, occlusion & morphology	/ 3
3- connectors	
* U shaped	/ 1
* position	/ 1

* thickness	/1
4- smoothness	/3
4- Fitting & finishing of posterior bridge	(15%)
1- fitting	
* margins	/ 4
* no rocking	/ 1
* not loose	/ 1
2- finishing	
* contour & contact points	/ 3
* occlusion & morphology	/ 2
* smoothness	/2
* polishing	/2
5. cut back of central	(10%)
1- margins	/ 3
2- thickness (occlusal clearance)	/ 2
3- contour	/ 1.5
4- smooth	/ 1
5- colar (position & thickness)	/ 1
6- butt joint (C-M joint)	/ 1.5
6. Fitting & finishing of Central	(10%)
1- fitting	/ 2
2- margins	/ 2
3- finishing	
* contour	/ 1
* no sharp edges –	/ 1
* same direction preperation	/ 1
* colar	/ 1
* butt joint	/ 1
* thickness	/1
7. Porcelain buildup of central	(15%)
1- contour	/ 2
2- occlusion	/ 1
3- morphology	/ 2
4- contact points	/ 2
5- margin	/ 2
6- shade	
* layers (enamel & dentine)	/ 1
* metal coverage by opaque	/ 1
* matching with shade guide	/ 1
7- fitting, sandblasting of fitting surface & colar polishing	/ 2

8- errors , cracks & pits	/ 1
8. cut back of Molar	(10%)
1- margins + chamfer finish line	/ 3
2- thickness (occlusal clearance)	1- / 1.5
3- contour	2- / 2
4- smooth	3- / 1
5- colar (position & thickness)	4- / 1
6- butt joint (C-M joint)	5- / 1.5
9. Fitting & finishing of Molar	(10%)
1- fitting	/ 2
2- margins	/ 2
3- finishing	
* contour	/ 1
* no sharp edges –	/ 1
* same direction preperation	/ 1
* colar	/ 1
* butt joint	/ 1
10. Porcelain buildup of Molar	(15%)
1- contour	/ 2
2- occlusion	/ 1
3- morphology	/ 2
4- contact points	/ 2
5- margin	/ 2
6- shade	
* layers (enamel & dentine)	/ 1
* metal coverage by opaque	/ 1
* matching with shade guide	/ 1
7- fitting, sandblasting of fitting surface & colar polishing	/ 2
8- errors , cracks & pits	/ 1

Additional Notes	
Attendance	<ul style="list-style-type: none"> - JUST requires the faculty member to assign ZERO grade (35%) if a student misses 20% of the classes. - Sign in sheet will be distributed at the beginning of the lecture. - Questions are welcome during labs.
Assessment	Assessment policy is subject to change because those changes might occur during the semester.