

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

Course Information	
Course Title	Fixed Prosthodontics III practical
Course Number	TDEN336
Co-requisites	TDEN334
Course coordinator	Maha Alomari, BSc, MDS
Co. instructors	
Office Location	Faculty of Applied Medical Sciences/ 2 nd floor
Office Phone	02/ 7201000 ext. (26944)
Office Hours	TBA
Teaching Assistants	Supervisors of dental technology laboratory
Course Description	
<p>This course is designed to the undergraduate students at the 3rd year and it is 2 Credit hours (laboratory). 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 two metal ceramic fixed partial dentures (one anterior & one posterior) and metal post and core. 	
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
<p>This is no theory in the course but the following text book can provide a guide for the different lab procedures</p>
<p>1. Rosentiel S F, Land M F & Fujimoto J. 2006. Contemporary Fixed Prosthodontics. 4th Edition. Mosby.</p> <p>2. Shillingburg H T <i>et al.</i> 1997. Fundamentals of Fixed Prosthodontics. 3rd Edition. Quintessence.</p>

Course Objectives	Weights
1- To provide further handling equipments and materials used in the construction of fixed prostheses in the proper way.	20%
2- To provide more hands on training on the various laboratory steps involved in the fabrication of the metal-ceramic restorations in addition to metal post and core.	80%

Assessment Policy	
Assessment Type and Expected Due Date	Weight
Lab Continuous Assessment	60%
Practical Midterm Exam Week 9 (case study)*	10%
Practical Final Exam Week 15	30%

* is subject to change

Course Content (Lab)	
Week	Topic
Week 1 31/1/2017	Cast preparation + Mounting
Week 2 7/2/2017	Cont. cast preparation + mounting
Week 3 14/2/2017	Full wax up of Upper Anterior bridge
Week 4 21/2/2017	Cut back of Upper Ant. bridge (framework substructure) + Investing and casting of bridge
Week 5 28/2/2017	fitting and finishing of metal substructure (Upper Ant. Bridge)
Week 6 7/3/2017	Porcelain Buildup of upper bridges
Week 7 14/3/2017	Cont. Porcelain Buildup of upper bridges
Week 8 21/3/2017	Wax-up of Lower Posterior bridge
Week 9 28/3/2017	Investing and casting of the lower bridge + wax up of post & core and investing
Week 10 4/4/2017	fitting and finishing of metal substructure (Lower Posterior bridge) + Finishing of post and core
Week 11 11/4/2017	Porcelain Buildup of lower bridges
Week 12 18/4/2017	Cont. Porcelain Buildup of lower bridges
Week 13 25/4/2017	Catch up lab

Week 14	Final practical exam
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Laboratory continuous assessment sheet	
Requirements	marks
1. Working cast & die prep. U (10)%	
1- length and width of base	1- /2
2-parallel dies	2- /1
3-dies not broken/easily removed	3- /2
4-pins	4- /1
5 –finish line & die spacer	5- /4
2. Working cast & die prep. L(10)%	
1- length and width of base	1- /2
2-parallel dies	2- /1
3-dies not broken/easily removed	3- /2
4-pins	4- /1
5 –finish line & die spacer	5- /4
3. Mounting (10)%	
1- pin in midline	1- / 1
2- smooth	2- / 1
3- stable	3- / 1
4- position of cast in articulator	4- / 2
5- correct bite	5- / 1
6- clean, no excess	6- / 2
7- definitive line between plaster & base / pins and sleeves of base	7- / 2
4. Full wax up of anterior bridge (10%)	
1-contour (labial & lingual)	1- / 2
2-margin	2- /2
3-connector	3- /2
4-pontic (ridge side)	4- /1
5- incisal edges & occlusion	5- /2
6 contact point	6- /1
5. Cutback of anterior bridge (10%)	
1-contour	1- / 2

2-margin	2- / 2
3-connector	3- / 1
4-pontic clearance (ridge side)	4- / 1
5-champher finish line	5- / 1
6-thickness / occlusal clearance	6- / 1
7-collar (shape and width)	7- /1
8- butt joint	8- / 1
6. Metal finishing ant. bridge (10%)	
1-fitting	1- / 2
2-finishing	
*connector	* /1
*no sharp edges	* /1
*thickness	* /1
*contour	* /1
* margins/champher finish line	* / 2
*Collar	* / 1
*butt joint	* / 1
7- Porcelain buildup of the anterior bridge (15%)	
1- contour	1- / 2
2- occlusion	2- / 1.5
3-morphology	3- / 3
4- MC- junction	4- / 2
5- pontic ridge side contact – (shape & position)	5- / 1
6 -shade	6- / 2
* layers (enamel & dentine)	
* metal coverage by opaque	
* matching with shade guide	
7-Polishing (porcelain& metal)	7- /1.5
8-contact point	8- / 2
8. Waxing of posterior bridge (10%)	
1-contour	1- / 2
2-margin	2- / 2
3-connector	3- / 1
4-pontic clearance (ridge side)	4- /1
5-champher finish line	5- / 1
6-thickness / occlusal clearance	6- / 1
7-collar (shape and width)	7- /1
8- butt joint	8- / 1

9. Metal finishing post. bridge (10%)	
1-fitting	1- / 2
2-finishing	2-
*connector	* /1
*no sharp edges	* /1
*thickness	* /1
*contour	* /1
* margins/champher finish line	* / 2
*Colar	* / 1
*butt joint	* / 1
10. Porcelain buildup of the posterior bridge (15%)	
1- contour	1- / 2
2- occlusion	2- / 1.5
3-morphology	3- / 3
4- MC- junction	4- / 2
5- pontic ridge side contact – (shape & position)	5- / 1
6 -shade	6- / 2
* layers (enamel & dentine)	
* metal coverage by opaque	
* matching with shade guide	
7-Polishing (porcelain& metal)	7- /1.5
8-contact point	8- / 2
11- Post &core (10%)	
1-wax	1- /5
*post part	* /2
*core part	* /2
*finish line	* /1
2-metal	2- /5
*fitting & finish line	* /2
*finishing	* /1
* core part	* /2

Additional Notes

Note	Any changes in this syllabus will be announced
Exams	Students are required to sit for the 3 semester examinations (mid-term and final) in addition to the final practical exam
Cheating	Cheating during exam will result in dismissal from the exam hall and the student will be penalized according to JUST regulations
Attendance	<ul style="list-style-type: none">- The students are expected to attend at least 80% of the practical sessions in order to pass the course.JUST requires the faculty member to assign ZERO grade (35%) if a student misses 20% of the laboratory sessions.- Sign in sheet will be distributed at the beginning of the lecture.- Questions are welcome during lectures.