



**Jordan University of Science and Technology**  
**Faculty of Dentistry**  
**Dental Surgery Department**

DENT466 Pre-Clinical Fixed Prosthodontics I - JNQF Level: 7

Second Semester 2022-2023

**Course Catalog**

2 Credit Hours. This course is the practical application for the theoretical Dent 465 Fixed Prosthodontics course. The course will provide the students with the basic practical experience needed to provide fixed restorations for patients.

**Text Book**

<b>Title</b>	Fundamentals of Fixed Prosthodontics
<b>Author(s)</b>	Shillingburg, Herbert T. and Hobo, Sumiya and Whitsett, Lowell D and Brackett, Susan E
<b>Edition</b>	4th Edition
<b>Short Name</b>	Ref. No.1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref. No. 2	Contemporary Fixed Prosthodontics	Rosenstiel, Land, Fujimoto	5th Edition	
Ref. No.3	Clinical Guide to Crowns and Other Extra-coronal Restorations	R W Wassell, J G Steele & A W G Walls	1st Edition	

**Instructor**

Name	Dr. Esam Alem
Office Location	-
Office Hours	
Email	eaalem@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 2:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 3:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 4:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 5:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 6:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 7:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 8:  
Lecture Time: U : -  
Room: PROSTHO LAB

Section 9:  
Lecture Time: U : 00:00 - 00:00  
Room: PROSTHO LAB

Section 10:  
Lecture Time: U : 00:00 - 00:00  
Room: PROSTHO LAB

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	INTRODUCTION + CONE-CYLINDER PRACTICE EXERCISE	Ch. 1, 6, 7, 9 From Ref. No.1
Week 2	ALL-CERAMIC CROWN PREPARATION (#21) + MAXILLARY ANTERIOR PFM BRIDGE (#11 - #13)	Ch. 10, 15 From Ref. No.1
Weeks 3, 4	TEMPORARY CROWN (#21) + MAXILLARY ANTERIOR PFM BRIDGE (#11 - #13)	Chapter 10, 15, 23 From Ref. No.1
Week 5	MAXILLARY POSTERIOR PFM-FULL METAL/PFM BRIDGE (#25-#27)	Ch. 10, 24 From Ref. No.1
Week 6	MANDIBULAR POSTERIOR ALL-CERAMIC BRIDGE (#44-#46) + PROVISIONAL FPD	Ch. 10, 15, 24 From Ref. No.1
Week 7	PREPARATION OF FULL METAL CROWN #47 + CATCH-UP SESSION	Ch. 10, 15, 24 From Ref. No.1
Week 8	IMPRESSION PROCEDURES, BITE REGISTRATION, SHADE SELECTION, LAB PRESCRIPTION	Ch. 16, 17 From Ref. No.1
Weeks 9, 10	LABORATORY PROCEDURES I + II	Ch. 18, 19, 20 From Ref. No.1
Week 11	CROWN ADJUSTMENT AND CEMENTATION PROCEDURES	Ch. 21 From Ref. No.1
Week 12	POST AND CORE TECHNIQUES	From Ref. No.1, Ch. 12 From Ref. No. 2
Week 13	PARTIAL COVERAGE RESTORATIONS (VENEERS, RRB, INLAY/ONLAY)	Ch. 11, 23 From Ref. No.1
Week 14	PRACTICE SESSION FOR FINAL PRACTICAL EXAMINATION + CATCH-UP	
Weeks 15, 16	FINAL ONLINE OSCE & PRACTICAL PREPARATION EXAMINATIONS	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
List and differentiate various burs/instruments, finish lines and preparation taper. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment
Prepare ceramo-metal, ceramic, and metal full coverage crowns. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment
Prepare anterior and posterior fixed partial dentures. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment
Fabricate provisional (temporary) crowns and bridges. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment
Apply retraction cord and make impression (one-stage technique). [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment

Prepare post space for direct and indirect post-and-core and make post impression. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	13%	Continuous assessment
Understand laboratory procedures involved in crown fabrication (die construction, waxing, casting, porcelain build up, finishing and polishing). [11.4 Scientific Knowledge and Cognitive Skills] [1L7S2]	11%	Continuous assessment
Try-in and cementation of crowns and bridges and make appropriate adjustments to the contour and occlusion. [11.3 Scientific Knowledge and Cognitive Skills] [1L7S2]	11%	Continuous assessment

Relationship to Program Student Outcomes (Out of 100%)													
1.1 Scientific Knowledge and Cognitive Skills	1.2 Scientific Knowledge and Cognitive Skills	1.3 Scientific Knowledge and Cognitive Skills	1.4 Scientific Knowledge and Cognitive Skills	1.5 Scientific Knowledge and Cognitive Skills	1.6 Scientific Knowledge and Cognitive Skills	1.7 Scientific Knowledge and Cognitive Skills	2.1 Person-Centred Care	2.2 Person-Centred Care	2.3 Person-Centred Care	2.4 Person-Centred Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communication, Professionalism and Ethics
		89	11										

Relationship to NQF Outcomes (Out of 100%)	
	L7S2
	100

Evaluation	
Assessment Tool	Weight
Continuous assessment	35%
Professionalism and Quizzes	5%
Final OSCE Examination	30%
Final Practical Preparation Examination	30%

Policy	
Professionalism	<ul style="list-style-type: none"> <li>- Gross violations of the formal codes are governed by University laws, which delineate the procedures to determine whether a violation of the code of ethics occurred and, if so, what remedies should be imposed.</li> <li>- We encourage students to maintain high moral standards as accepted by society, philosophy, religion, and individual conscience.</li> <li>- Any difficulty or concern during the course should be passed directly to the course coordinator.</li> </ul>
Labwork	<ul style="list-style-type: none"> <li>- Assigned lab work should be finished during the lab sessions.</li> <li>- Unsubmitted work will not be marked</li> <li>- All the instruments you need should be brought as soon as possible/ A list of that will be provided.</li> <li>- You should leave your worktop as clean as possible. Marks are counted towards continuous assessment.</li> <li>- Each student should set at the designated area. Lab benches will be numbered and assigned by the lab supervisor.</li> <li>- Cooperation and professionalism in the lab time are very helpful and encouraged to facilitate your progress in the course.</li> </ul>
Makeup Exams and Labs	<ul style="list-style-type: none"> <li>- Valid excuses should be presented at the appropriate time for make-up exams.</li> <li>- Substituting labs is not permitted without prior arrangement with the course coordinator and lab supervisor (phantom head units are available to the exact number of students)</li> </ul>
Cheating	<ul style="list-style-type: none"> <li>- It is unethical and illegal by any means</li> <li>- JUST regulations will be applicable</li> <li>- The work should be your own, otherwise it will be scored zero.</li> </ul>
Attendance	<ul style="list-style-type: none"> <li>- Mandatory for all laboratory sessions</li> <li>- Attendance is encouraged at all times on time</li> </ul>
Absenteeism	<ul style="list-style-type: none"> <li>- To receive course credit, a student should attend a minimum of 90% of the contact hours of the class.</li> <li>- Students who are absent from labs must contact the course coordinator who will refer to the appropriate university guidelines.</li> <li>- Any student who is absent on a test day, will have to demonstrate an acceptable medical or social statement explaining the illness or personal crisis.</li> <li>- Arrangements for a make-up test can only when a written request is sent to and approved by the Dean of the Faculty of Dentistry.</li> </ul>
Students with Special needs	<ul style="list-style-type: none"> <li>- Any student who feels that s/he may need accommodation for any type of disability is encouraged to contact the course coordinator who will be happy to help in any way.</li> <li>- Accommodations to the course plan can be tailored to the needs of specific individuals after consultations with the Dean.</li> </ul>
Individual conferencing and consultations	<ul style="list-style-type: none"> <li>- The course coordinator is always available to talk with the student when problems arise.</li> <li>- If you have any problems that require the attention of an instructor, do not wait until the problem is unsolvable.</li> <li>- If a student must talk with the course coordinator after office hours, an appointment can be made for that time.</li> </ul>
Course changes	<ul style="list-style-type: none"> <li>- Information contained in this course outline is correct at the time of publication.</li> <li>- Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment needs.</li> <li>- The course coordinator reserves the right to add or delete material from courses and will endeavor to provide notice of changes to students as soon as possible.</li> <li>- The timetable may also be revised accommodating to holidays and unexpected off days.</li> </ul>

Laboratory regulations	<ul style="list-style-type: none"> <li>- Each student must sit on their assigned laboratory bench.</li> <li>- Benches must be kept clean. Each student's work area will be assessed at the end of each lab and students with untidy benches will lose marks.</li> <li>- Only lab materials and instruments are allowed on bench tops. All personal items, coats and bags are to be placed under benches or on window benches.</li> <li>- A clean and tidy laboratory white coat must be worn and buttoned every session. Attire must be acceptable with closed-top shoes. Shorts and sandals are not permitted.</li> <li>- Name badge should be worn during every laboratory session.</li> <li>- No loose or dangerous jewelry, chains, bracelets, etc.</li> <li>- Protective masks and glasses worn according to instructor's instructions.</li> <li>- Long hair must be kept tied back safely.</li> <li>- No food or drink of any kind is allowed in the laboratory. No chewing gum. (Keep in bags or lockers).</li> <li>- Mobile phones are not permitted. (Kept silent/turned off in bags or lockers).</li> <li>- Radios/portable audio player ? earphones are not permitted.</li> <li>- Students are responsible for the equipment they are assigned and will be required to replace lost/damaged equipment.</li> </ul>
Laboratory Equipment	<p>This list will be checked during laboratory session (Please write or identify/carve your name, university ID, and section number on your instruments):</p> <ul style="list-style-type: none"> <li>- White lab coat</li> <li>- Name tag</li> <li>- Operative dentistry instruments: Mirror, explorer, tweezers, plastic instrument, carver, cement spatula</li> <li>- Perio probe</li> <li>- Endo instruments from endo course if available: files, gates-glidden burs, lentulo-spiral</li> <li>- Wax knife, le cron carver</li> <li>- Scalpel handle or sharp box cutter</li> <li>- Mechanical pencil (0.5mm) or sharp pencil</li> <li>- Permanent (CD) marker (fine point)</li> <li>- 10-15 cm ruler</li> <li>- (Metal gauge)</li> <li>- Complete maxillary and mandibular Nissin jaws with articulating joint</li> <li>- Diamond dental burs: (13 burs)</li> <li>- Shofu Super-Snap Mandrel for composite finishing discs</li> </ul>

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