



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

DENT761L Laboratory Training In Prosthodontics - JNQF Level: 6

First Semester 2024-2025

Course Catalog

1 Credit Hours. The aim of this course is to introduce student to the biomechanical principles of preparation and master tooth preparation for various fixed prostheses as well as labwork.

Teaching Method: On Campus

Text Book

Title	Fundamentals of Fixed Prosthodontics
Author(s)	Shillingburg, Herbert T. and Hobo, Sumiya and Whitsett, Lowell D and Brackett, Susan E
Edition	13th Edition
Short Name	Ref. No. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref. No. 2	Contemporary Fixed Prosthodontics	Rosenstiel, Land, Fujimoto	14th Edition	

Instructor

Name	Prof. Ahed Al-Wahadni
Office Location	234
Office Hours	
Email	ahed@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: U : -
 Room: HOSPITAL

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Preparation of C-M crown (Upper central Incisor)	
Week 2	Preparation Of C-M crown (Lower canine)	
Week 3	Preparation of full ceramic crown (Upper central Incisor)	
Week 4	Preparation PLV (Upper Central	
Week 5	Preparation RBB (Upper Central-Canine)	
Week 6	Preparation C-M Bridge (Lower First Premolar- First Molar)	
Week 7	Preparation C-M Bridge (Upper Central -Canine)	
Week 8	Preparation of C-M crown (Upper central Incisor)	
Week 9	Preparation Of C-M crown (Lower canine)	
Week 10	Preparation of full ceramic crown (Upper central Incisor)	
Week 11	Preparation PLV (Upper Central Incisor)	
Week 12	Diagnostic Wax -up (Closing Diastema with PLV)	
Week 13	Ceramo-Metal A-Z	
Week 14	All-Ceramic Crown A-Z	
Week 15	Implant Case	
Week 16	RPD Co-Cr	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Explain the biological, mechanical, and esthetic principles underlying tooth preparation for crowns and bridges in fixed prosthodontics. [1PLO_9K1] [1L6K1]	15%	
Apply criteria for optimal preparation of crowns and bridges, including margin selection and preservation of tooth health, for both conventional and digital workflows. [1PLO_9K2] [1L6K2]	15%	
Demonstrate proficiency in using conventional laboratory equipment and techniques to fabricate fixed and removable prosthodontic restorations. [1PLO_9S1] [1L6S1]	20%	
Design and construct removable and fixed prostheses in a simulation setting using analog techniques, ensuring functional accuracy and clinical relevance. [1PLO_9S1] [1L6S1]	20%	
Execute basic clinical and laboratory procedures for dental implants and apply proper workflow protocols in prosthodontic applications. [1PLO_9S1] [1L6S1]	15%	
Demonstrate competency in digital dentistry techniques for clinical and laboratory procedures, including intraoral scanning, CAD/CAM design, and digital fabrication. [1PLO_9S1] [1L6S1]	15%	

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 Centered Care	2.2 Person Centered Care	2.3 Person Centered Care	2.4 Person Centered Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communication, Professionalism and Ethics

Relationship to NQF Outcomes (Out of 100%)		
L6K1	L6K2	L6S1
15	15	70

Evaluation	
Assessment Tool	Weight
Mid-term	20%
continuous assessment	30%
final	50%

Policy	
Regulations	Cheating: Prohibited; in case of cheating the student will be subject to punishment according to the JUST bi-laws Attendance: According to JUST bi-law Withdrawal: According to JUST bi-laws
Practical Section Competencies Schedule	Week Task 1 Preparation of C-M crown (Upper central Incisor) 2 Preparation Of C-M crown (Lower canine) 3 Preparation of full ceramic crown (Upper central Incisor) 4 Preparation PLV (Upper Central Incisor) 5 Preparation RBB (Upper Central-Canine) 6 Preparation C-M Bridge (Lower First Premolar- First Molar) 7 Preparation C-M Bridge (Upper Central -Canine) 8 Preparation of C-M crown (Upper central Incisor) 9 Preparation of C-M crown (Upper central Incisor) 10 Preparation of full ceramic crown (Upper central Incisor) 11 Preparation PLV (Upper Central Incisor) 12 Diagnostic Wax -up (Closing Diastema with PLV) 13 Ceramo-Metal A-Z 14 All-Ceramic Crown A-Z 15 Implant Case 16 RPD Co-Cr

<p>Assessment Criteria of FINAL Exam Dent 761 course</p>	<p>1. Understanding the overall principles of Tooth preparation 10, -All details of all sections according to the Demos are listed, Each BMP has 2 marks</p> <p>2. Mastering the right Marginal integrity (finish line) preparation and dimension 10, -All EO and IO findings are listed correctly compared with the pictures, Right finish line has 7marks, Location has 3 marks</p> <p>3. Mastering the right resistance form (axial reduction and retentive aids) preparation and dimension, -All Problems are listed according to the guidelines 10 Marks Preservation of tooth structure 4 marks Taper Parallelism 4marks Retentive aid if need or overall all 2 marks</p> <p>4. Mastering the right retention form (axial reduction and retentive aids) preparation and dimension 10 Marks 1-All Problems listed are referred 2-All referred are listed in the problem list 3-referrals are listed under correct sections</p> <p>5. Mastering the right structural durability (axial reduction and retentive aids) preparation and dimension 10 Marks -Student can explain and respond to the query correctly -Student realizes the mistake if any during the discussion and can make the correction -Student present his/her part confidently and correctly -Clear and sound English (Under preparation 5 Marks) (Over preparation 5 marks)</p> <p>Total Mark 50 Marks</p>
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