Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Dental Technology Department

TDEN326 Advanced Removable Prosthodontics Practical - JNQF Level: 7

Second Semester 2023-2024

Course Catalog
2 Credit Hours. This Practical Course in Digital Removable Prosthodontics is designed to provide dental technology students with hands-on experience and practical skills in utilizing digital technologies for the design, fabrication, and customization of removable prostheses. Through a combination of demonstrations and laboratory sessions, students will gain the basic skills in laboratory scanning, computer-aided design (CAD) software and CAM technologies specific to removable prosthodontics. Students will develop a comprehensive understanding of digital workflows in removable prosthodontics, including digital impression techniques and CAD/CAM design principle. Students will acquire skills in CAD software applications required for designing removable prostheses. Fabricate Removable Prostheses: Through hands-on laboratory sessions, students will fabricate removable prostheses using digital workflows. They will translate digital designs into physical prototypes, perform post-processing tasks, and evaluate the fit, function, and esthetics of the fabricated prostheses.
Teaching Method: On Campus

Text Book	
Title	Clinical Applications of Digital Dental Technology. (2023). United Kingdom: Wiley.
Author(s)	Radi Masri, ? Carl F. Driscoll
Edition	2nd Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Digital Removable Partial Denture Technology: From Design Analysis to Practical Skills. Germany: Springer Nature Singapore	Yu, H.	2nd Edition	

Instructor	
Name	**Dr. Noor Nawafleh**

Office Location	Faculty of Applied Medical Sciences/Second Floor
Office Hours	
Email	nanawafleh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 2: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 3: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 4: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 5: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 6: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 7: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 8: Lecture Time: Sun : 09:30 - 15:30 Room: LAB Section 9: Lecture Time: Sun : 09:30 - 15:30 Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to Digital Removable Prosthodontics	From **1**, From **2**
Week 2	Laboratory Scanning: Understanding the importance of detailed data acquisition for successful digital workflows	From **1**, From **2**
Week 3	Fundamentals of digital model manipulation and design principles.	From **2**

Week 4	Hands-on exercises in CAD software applications for designing removable prostheses.	From **1**
Week 5	Hands-on exercises in CAD software applications for designing removable prostheses.	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the principles and concepts of digital dentistry and its applications in removable prosthodontics. [10PLO 1] [10L7K1]	10%	
Understand CAD/CAM workflow for designing removable prostheses [5PLO 1, 10PLO 2, 5PLO 4] [1L7K1]	20%	
Apply scanning principles to capture accurate data for CAD/CAM design processes [5PLO 2, 10PLO 4, 5PLO 6] [10L7S2, 10L7S3]	20%	
Utilize CAD software to design removable prostheses based on patient-specific anatomical data. [5PLO 2, 10PLO 6, 10PLO 8] [5L7S1, 5L7S2, 15L7S3]	25%	
Implement CAM techniques to translate digital designs into physical prosthetic components using additive manufacturing methods. [5PLO 1, 10PLO 3, 10PLO 6] [5L7S1, 15L7S2, 5L7S3]	25%	

Relationship to Program Student Outcomes (Out of 100%)									
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
20	20	10	15		25		10		

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7S3
30	10	30	30

Policy	
Cheating	Cheating the commitment of the Acts of Cheating and deceit such as copying during examinations is dishonest and will not be tolerated; JUST policy will be applied.
attendance	Student attendance and responsibility: Lateness more than 10 minutes is considered as an unexcused absence. JUST POLICYwill be applied regarding absence

Date Printed: 2024-02-28