



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Dental Technology Department**

TDEN336 Fixed Prosthodontics (3) Practical

Second Semester 2023-2024

**Course Catalog**

2 Credit Hours. This course is designed for the students studying Bachelor of Dental Technology in their third year of study and it is two practical credit hour. This course is designed to provide students with hands-on experience and practical skills in utilizing digital technologies for the design, fabrication, and customization of fixed prostheses. Through a combination of demonstrations and laboratory sessions, students will gain the basic skills in laboratory scanning, Computer Aided Design (CAD) software and Computer Aided Milling (CAM) technologies specific to fixed prosthodontics. Students will develop a comprehensive understanding of digital workflows in fixed prosthodontics, including digital scanning, digital design and fabrication fixed prostheses.

**Teaching Method:** On Campus

**Instructor**

Name	<b>Mrs. Maha Alomari</b>
Office Location	Faculty of Applied Medical Sciences/Second Floor
Office Hours	Sun : 12:30 - 13:30 Mon : 10:00 - 12:00 Mon : 13:00 - 14:00 Tue : 08:30 - 09:30 Wed : 12:30 - 13:30
Email	maalomari2@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 2:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 3:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 4:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 5:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 6:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 7:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

Section 9:  
Lecture Time: Tue : 09:30 - 15:30  
Room: LAB

### Tentative List of Topics Covered

<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction to Digital Fixed Prosthodontics	
Week 2	Digital Scanning and Evaluation Training (Scan casts)	
Week 3	Digital Scanning Training	
Week 4	Virtual articulation	
Weeks 5, 6	Hands-on exercises in CAD software applications for designing Fixed prostheses	
Weeks 7, 8, 9, 10	Digital Design, and Fabrication of Monolithic Teeth-Supported Crown	
Week 11	Scanning and Fabrication of provisional restoration	
Week 12	Training in Digital Photograph	
Week 13	Case presentations and discussion	

Week 14	Catch up lab	
Week 15	Final Exam	

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the principles and concepts of digital dentistry and its applications in fixed prosthodontics	10%	
Understand CAD/CAM workflow for designing and milling fixed prostheses.	20%	
Demonstrate the use of a digital scanner to capture accurate data for CAD/CAM design processes.	10%	
Become familiar with designing, milling, characterization and glazing of final CAD/CAM restorations.	30%	
Complete a CAD/CAM provisional restoration.	10%	
Apply digital technologies for communication and collaboration while understanding compliance issues in digital transfer of files and patient information.	20%	

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

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this course. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during instruction, leaving a lab prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone	The use of cellular phone is prohibited in lab and during exams. The cellular phone must be switched off in lab and during exams.
Attendance	No points will be count for points attendance of this class, however attending the lab sessions will greatly enhance your grade. The student is responsible for any information discussed in lab sessions. It is imperative to attend all classes!
Absences	University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)
Make-up Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours

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