



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

TDEN351 Maxillofacial Prosthodontics (1) - JNQF Level: 7

First Semester 2023-2024

**Course Catalog**

1 Credit Hours. This is an undergraduate third year dental technology students with one credit hour. It is designed to provide the students with the overall knowledge of intraoral maxillofacial defects and trauma appliances; mainly maxillofacial obturators and arch bars.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	The Art of Clinical Anaplastology
<b>Author(s)</b>	Keith Thomas
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Reference 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Reference 2	Maxillofacial trauma and esthetic facial reconstruction	Peter Ward Booth, Barry L. Eppley, Rainer Schmelzeisen	2nd Edition	Churchill Livingstone, - Aesthetics - 662 pages <a href="https://www.nature.com/articles/sj.bdj.2012.518">https://www.nature.com/articles/sj.bdj.2012.518</a>
Reference 3	3D Printing in Medicine and Surgery Applications in Healthcare	Daniel J. Thomas and Deepti Singh	1st Edition	<a href="https://www.sciencedirect.com/book/9780081025420/3d-printing-in-medicine-and-surgery">https://www.sciencedirect.com/book/9780081025420/3d-printing-in-medicine-and-surgery</a>

Reference 4	Clinical Applications of Digital Dental Technology	Radi Masri, Carl F. Drisco	2nd Edition	2023 DOI:10.1002/9781119045564
Reference 5	Maxillofacial Fractures: From Diagnosis to Treatment. .	Mohammad Esmaeel inejad	1st Edition	<a href="https://www.intechopen.com/chapters/60520">https://www.intechopen.com/chapters/60520</a>

Instructor	
Name	<b>Dr. Muhanad Hatamleh</b>
Office Location	-
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Class Schedule & Room
<p>Section 1: Lecture Time: Wed : 08:30 - 09:30 Room: N1302</p> <p>Section 2: Lecture Time: Wed : 13:00 - 14:00 Room: N1302</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
513213	TDEN321 Removable Partial Prosthodontics 2	Pre./Con.

Tentative List of Topics Covered		
Weeks	Topic	References
Week 3	Defects of the maxilla	From <b>Reference 5</b>
Week 2	History of Maxillofacial Prosthetics	From <b>Reference 1</b>
Week 4	Defects of the mandible	From <b>Reference 5</b>
Week 7	Mandibular fractures	<b>Chapters 15 &amp; 16</b> From <b>Reference 2</b>
Week 9	Dento-alveolar fractures	<b>Chapters 17</b> From <b>Reference 2</b>

Week 10	Facial burns management	<b>Chapters 22 &amp; 23 From Reference 2</b>
Weeks 11, 12	Integration of 3D technologies in trauma management	From <b>Reference 3, Chapter 15</b> From <b>Reference 4</b>
Week 13	Case studies of pan-facial trauma	
Week 1	Induction and orientation, and Introduction to Maxillofacial Prosthetics	From <b>Reference 1</b>
Week 5	Cleft lip and palate defects	
Week 6	Maxillofacial fractures	<b>Chapters 1 &amp; 6 From Reference 2</b>
Week 14	Dental obturators, facial masks, gunning splints, arch bars and custom bone implants in management maxillofacial trauma	
Week 15	Revision	
Week 8	Mid term exam	
Week 16	Final exam	

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Provide students with basic knowledge about the maxillofacial prosthetics science. [1PLO 1, 1PLO 2] [1L7K1]	25%	
Provide students with adequate background about the general defects can be restored with maxillofacial prosthesis. [1PLO 3, 1PLO 4] [1L7K1]	25%	
Provide students with basic knowledge about dealing with maxillofacial patients and patient assessment. [1PLO 5, 1PLO 6, 1PLO 7] [1L7S1, 1L7S3]	25%	
Provide students with sufficient theoretical and knowledge about the various steps involved in fabrication of the different types of maxillofacial prostheses [1PLO 6, 1PLO 8] [1L7C4]	25%	

<b>Relationship to Program Student Outcomes (Out of 100%)</b>									
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
12.5	12.5	12.5	12.5	8.33	20.83	8.33	12.5		

<b>Relationship to NQF Outcomes (Out of 100%)</b>			
L7K1	L7S1	L7S3	L7C4
50	12.5	12.5	25

<b>Evaluation</b>	
<b>Assessment Tool</b>	<b>Weight</b>
Midterm Exam	40%
2 Quizzes	10%
Final Exam	50%

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