



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

TDEN356 Maxillofacial Prosthodontics (2) Practical - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This practical course in maxillofacial prosthetics offers hands-on experience in designing, fabricating, and fitting various types of prosthetic devices to restore facial aesthetics and function in patients with maxillofacial defects. Through supervised laboratory sessions, students will learn advanced prosthetic design techniques, material selection, and fabrication processes specific to maxillofacial prosthetics, including orbital prostheses, and facial prostheses. Emphasis will be placed on mastering clinical skills in patient assessment, treatment planning, and prosthetic delivery, as well as developing competence in managing complications and adhering to ethical and professional standards in practice.

Teaching Method: On Campus

Text Book

Title	Maxillofacial prosthetics and digital technologies: Cross-sectional study of healthcare service provision, patient attitudes, and opinions
Author(s)	Muhanad Moh'd Hatamleh , Heba Mohammad Hatamlah , Amjad Nuseir
Edition	1st Edition
Short Name	Reference 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Reference 2	Use of 3-dimensional imaging and manufacturing for bilateral auricular prostheses: A case series of six patients with congenital auricular defects	Muhanad M Hatamleh , Heba Mohammad Hatamlah , Amjad Nuseir	1st Edition	
Reference 3	Successful prosthetic salvage of a suboptimal autogenous auricular reconstruction with digital technologies: A report of 3 challenging treatments	Muhanad M Hatamleh , Jason Watson , Amjad Nuseir	1st Edition	

Reference 4	The art of clinical anaplastology	Keith Thomas	1st Edition	
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Instructor	
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Name	Dr. Muhanad Hatamleh
Office Location	-
Office Hours	Sun : 09:30 - 11:30 Mon : 12:00 - 13:00 Tue : 10:00 - 13:00 Wed : 08:30 - 09:00 Thu : 09:30 - 11:00
Email	mmhatamleh5@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 2:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 3:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 4:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 5:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 6:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 7:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 8:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 10:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Section 11:

Lecture Time: Wed : 09:30 - 15:30

Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2, 3	Reconstruction of a missing ear (manually)	From Reference 1
Weeks 4, 5, 6	Reconstruction of missing ear (digitally)	From Reference 3
Weeks 7, 8, 9	Manufacture of an ocular prosthesis	From Reference 4
Weeks 10, 11	Science and art of colouring maxillofacial silicone elastomers (manual colouring)	From Reference 4

Weeks 12, 13, 14	Science and art of colouring maxillofacial silicone elastomers (digital colouring)	From Reference 2 , From Reference 3
Week 15	Final Practical Exam	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Skill Development in Facial Prosthetic Design: Students will develop hands-on skills in designing facial prostheses tailored to individual patient needs, encompassing features such as nose, ears, and eyes, using advanced sculpting and molding techniques [1PLO 1, 1PLO 2] [1L7S1, 1L7S2]	20%	
Proficiency in Prosthetic Fabrication Techniques: Students will acquire proficiency in the fabrication of facial prostheses using a variety of materials, including silicone elastomers, to achieve lifelike appearance, texture, and durability [1PLO 1, 1PLO 2] [1L7S1, 1L7S2]	20%	
Students will practice reproduction of skin colour by manual mixing of colourants with maxillofacial silicone elastomer [1PLO 4] [1L7K1]	20%	
Students will practice reproduction of skin colour by digital skin colour recording using Spectromatch system [1PLO 1] [1L7S1]	20%	
Students will practice digital workflow of manufacturing facial prosthetics [1PLO 1, 1PLO 7] [1L7S3]	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
50	20		20			10			

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7S3
20	40	20	20

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