



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

TDEN207 Fundamentals Of Dental Technology - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

1 Credit Hours. This is an undergraduate Second year students course, 1 credit theoretical hour. It is designed to provide the students with : - The basic theoretical knowledge needed to fabricate various dental prostheses and associated tools. - A solid theoretical background relevant to technical and clinical aspects of constructing removable dentures. - A general background regarding digital dentistry approach (additive and subtractive manufacturing)

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	Basics of Dental Technology: A Step by Step Approach
<b>Author(s)</b>	Tony Johnson, David Patrick, Christopher Stokes et al
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Reference
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Zeid Al-Hourani</b>
<b>Office Location</b>	Faculty of Applied Medical Sciences -Second Floor
<b>Office Hours</b>	Sun : 08:30 - 09:30 Sun : 11:30 - 12:30 Mon : 09:30 - 11:30 Tue : 13:30 - 14:30 Thu : 15:30 - 16:30
<b>Email</b>	zahorani@just.edu.jo

**Class Schedule & Room**

Section 1:  
 Lecture Time: Thu : 08:30 - 09:30  
 Room: LAB

**Prerequisites**

Line Number	Course Name	Prerequisite Type
512031	TDEN203 Dental Materials	Pre./Con.

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Introduction: Equipment and instruments	From <b>Reference</b>
Week 2	Risk assessment and lab safety	From <b>Reference</b>
Week 3	Dental Impression - Primary Impression - Stock impression Trays	From <b>Reference</b>
Week 4	Dental Impression - Final Impression - Special impression Trays	From <b>Reference</b>
Weeks 5, 6	Removable prosthodontics (complete & partial dentures)	From <b>Reference</b>
Weeks 7, 8	Record Blocks, bite registration & types of articulators	From <b>Reference</b>
Week 9	Acrylic processing	From <b>Reference</b>
Week 10	Denture Repair, Reline & Rebase	From <b>Reference</b>
Week 11	Fixed prosthodontics (crown, bridge)	From <b>Reference</b>
Week 12	Cast Preparation for Fixed Partial Denture	From <b>Reference</b>
Weeks 13, 14	Digital dentistry I	From <b>Reference</b>

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Provide students with sufficient information regarding the anatomical landmarks in the denture bearing area. [20PLO 1] [20L7K1]	20%	Mid-term exam, Final exam
Provide the students with sufficient theoretical background about the clinical and technical procedures involved in constructing removable acrylic dentures with more concentration on the technical part. [10PLO 1, 10PLO 3, 10PLO 8] [20L7S1, 10L7S2]	30%	Mid-term exam, Final exam
Provide students with practical problems in the various steps involved in the fabrication of acrylic dentures and the way to avoid and overcome them. [10PLO 3, 20PLO 4] [10L7S2, 10L7C4]	30%	Mid-term exam, Final exam

Learn the students the basic knowledge about digital approach in dental field and how to distinguish between the available techniques. [10PLO 6, 10PLO 9] [10L7S1, 10L7C3]	20%	Final exam
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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
30		20	20		10		10	10	

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C3	L7C4
20	30	25	10	15

Evaluation	
Assessment Tool	Weight
Mid-term exam	50%
Final exam	50%

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Attendance	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes
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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