



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

TDEN341 Orthodontics (1) - JNQF Level: 6

First Semester 2024-2025

**Course Catalog**

1 Credit Hours. This is an undergraduate third year students course. This practical course is given in conjunction with the theoretical part. Both courses are designed to provide the students with the sufficient knowledge necessary to communicate with the orthodontist, understand the treatment plan the rationale behind it. The students will have the opportunity to gain a thorough knowledge related to the characteristics of normal occlusion, different types of skeletal and occlusion anomalies and how to describe the malocclusion and with using different classification systems. In addition, the course will teach the students the various orthodontic records. The course allows the students to recognize different types of orthodontic appliances. A large emphasis of this course will be on the removable orthodontic appliances: definition, materials used in construction, mode of action, indications, contraindications, limitations, proper design, various active and retentive components, activation of appliances and overview of the clinical management and follow up. The practical part provides the students with the basic technical knowledge and manual skills necessary to fabricate various type of removable orthodontics appliances.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	Orthodontic Retainers and Removable Appliances
<b>Author(s)</b>	Luther, F; Nelson-Moon Z
<b>Edition</b>	1st Edition
<b>Short Name</b>	Reference 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Reference 2	An Introduction to Orthodontics	Laura Mitchell	3rd Edition	
Reference 3	The design, construction and uses of removable orthodontic appliances	C. Philip Adams; W. John S. Kerr	6th Edition	

Reference 4	Removable Orthodontic Appliances	Isaacson K. G; Reed R. T; Muir J. D	1st Edition	
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Instructor	
Name	<b>Dr. Noor Al-Mortadi</b>
Office Location	L2 -18
Office Hours	
Email	naalmortadi@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 11:30 - 12:30 Room: N4201

Prerequisites		
Line Number	Course Name	Prerequisite Type
512070	TDEN207 Fundamentals Of Dental Technology	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to the course and distribution of the syllabus	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 2	Introduction to Orthodontics and normal occlusion	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 3	Classifications of Malocclusion and Rationale of Orthodontic Treatment	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 4	Types of Orthodontic Appliances and Orthodontic Tooth Movements	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 5	Removable appliances: Principles and design	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>

Week 6	Removable Appliances/Retentive components	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 7	Removable Appliances/Active Components I	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 8	Removable Appliances/Active Components II	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 9	Removable Appliances/Bite Planes	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 10	Anchorage	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 11	Diagnostic Records and study models preparation	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 12	Fitting a removable appliance and clinical management	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 13	Stability and Retention	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>
Week 14	Revision	From <b>Reference 1</b> , From <b>Reference 2</b> , From <b>Reference 3</b> , From <b>Reference 4</b>

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Understand all the basic knowledge related to the field of orthodontics, features of normal occlusion, features of different malocclusions and the classification systems. [10PLO 1, 10PLO 6] [7L6K2, 7L6C4, 6L6C5]	20%	

Recognize and understand the different types of orthodontic movements and orthodontic appliances used to produce them. [10PLO 1, 10PLO 3] [7L6K1, 7L6K2, 6L6S1]	20%	
Learn brief knowledge of clinical examination and diagnostic records needed prior or during orthodontic treatment [10PLO 2, 10PLO 6] [10L6C3, 10L6C4]	20%	
Understand the detailed knowledge related to removable orthodontic appliances [10PLO 1, 10PLO 2] [7L6K1, 7L6K2, 6L6C1]	20%	
Satisfactorily complete a series of wire bending exercises needed to construct the various retentive and active components of removable orthodontic appliances as well as the acrylic baseplates. [10PLO 2, 10PLO 3] [10L6C2, 10L6C3]	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
30	30	20			20				

Relationship to NQF Outcomes (Out of 100%)							
L6K1	L6K2	L6S1	L6C1	L6C2	L6C3	L6C4	L6C5
14	21	6	6	10	20	17	6

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.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone	The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
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!
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
AI	AI is not allowed to be used in this course for quizzes. You need to cite the AI in the places you have used it for

Date Printed: 2024-12-23