



**Jordan University of Science and Technology**  
**Faculty of Dentistry**  
**Dental Surgery Department**

DENT491 Orthodontics (1) - JNQF Level: 7
First Semester 2023-2024

<b>Course Catalog</b>
2 Credit Hours. Dent 491 is an undergraduate 4th year dental students continuous course, consists of 2 credit hours (1 theoretical and 1 practical), that is designed to provide the students with: 1. A solid theoretical background, relevant to clinical orthodontics (theoretical part) 2. The basic technical knowledge and skills to fabricate Removable orthodontic appliances (laboratory part).

Text Book	
<b>Title</b>	Handbook of Orthodontics
<b>Author(s)</b>	Martyn Cobourne and Andrew DiBiase
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Ref # 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	An Introduction to Orthodontics , 2019	Simon Littlewood and Laura Mitchell	5th Edition	
Ref # 3	Lecture notes	Summary form different resources	1st Edition	
Ref # 4	Contemporary Orthodontics	William Proffit Henry Fields Brent Larson David Sarver	6th Edition	

Instructor	
Name	Prof. Suzan Al-Khateeb
Office Location	293
Office Hours	
Email	susank@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Wed : 08:30 - 09:30 Room: NG76

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	The rational of orthodontic treatment	<b>Chapter 1</b> From <b>Ref # 1</b>
Week 2	Facial growth	From <b>Ref # 4</b>
Week 3	Development of normal occlusion	From <b>Ref # 2</b>
Week 4	Classification of malocclus	From <b>Ref # 1</b>
Week 5	The etiology of malocclusion 1	From <b>Ref # 1</b>
Week 6	The etiology of malocclusion 2	From <b>Ref # 1</b>
Week 7	Cephalometric Analysis 1	From <b>Ref # 1</b> , From <b>Ref # 2</b>
Week 8	Cephalometric Analysis 2	From <b>Ref # 2</b>
Week 9	Examination and Diagnosis	From <b>Ref # 1</b>
Week 10	Treatment Planning	From <b>Ref # 1</b>
Week 11	Histology and physiology of tooth movement	From <b>Ref # 1</b> , From <b>Ref # 4</b>
Week 12	Interceptive Orthodontics 1	From <b>Ref # 1</b> , From <b>Ref # 2</b>
Week 13	Interceptive Orthodontics 2	From <b>Ref # 1</b> , From <b>Ref # 2</b>

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Knowledge about craniofacial growth and development of normal occlusion [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	10%	
Knowledge about cephalometric analysis as part of orthodontic records [11.2 Scientific Knowledge and Cognitive Skills] [2L7K1, 1L7S2]	20%	
When collecting all the data from the patient and analyzing the records they obtained, they should be able to diagnose the malocclusion [12.1 Person Centered Care] [2L7S3]	20%	
When reaching to a proper diagnosis of the malocclusion, the students should be able to build up a treatment plan accordingly [12.1 Person Centered Care] [1L7S1, 1L7C4]	10%	
Knowledge of etiology of malocclusion [11.2 Scientific Knowledge and Cognitive Skills] [1L7S1]	20%	
Knowledge about preventive and interceptive orthodontics [21.7 Scientific Knowledge and Cognitive Skills] [1L7K1]	20%	

Relationship to Program Student Outcomes (Out of 100%)													
1.1 Scientific Knowledge and Cognitive Skills	1.2 Scientific Knowledge and Cognitive Skills	1.3 Scientific Knowledge and Cognitive Skillsledge	1.4 Scientific Knowledge and Cognitive Skills	1.5 Scientific Knowledge and Cognitive Skills	1.6 Scientific Knowledge and Cognitive Skills	1.7 Scientific Knowledge and Cognitive Skills	2.1 Person Centered Care	2.2 Person Centered Care	2.3 Person Centered Care	2.4 Person Centered Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communicatic Professionalis and Ethics
	50					20	30						

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C4
43.33	25	6.67	20	5

Evaluation	
Assessment Tool	Weight
Midterm exam	30%
Continuous assessment for wire bending	20%
Final exam	50%

Policy	
University and faculty regulations	Students must attend at least 90% of all scheduled clinics. Class participation is required. Missed requirements and quizzes will be made up only if the absence was caused by an acceptable excuse. Students are expected to follow the dress code according to the faculty policy

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