

**The University of Jordan**  
**Faculty of Dentistry**  
**Department of Paediatric Dentistry**

**Course Title:** Orthodontics Theory-2

**Course Code:** 1303573

**Prerequisite:** 1303473

**Course Coordinator:** Dr. Iyad Al-Omari

**Year:** 5<sup>th</sup> year, first semester

**Credit:** 1 credit hour

**Prerequisite for:** This is a theoretical course which is implemented by a separate practical clinical course which runs throughout the academic year. This theoretical course is intended for the 5<sup>th</sup> year students in the first semester of the academic year.

**Instructor:**

***Name:*** Dr. Iyad Al-Omari

***Office Number:*** 203 and 305

***Office Phone:*** 23552

***E-mail:*** [iyadom@ju.edu.jo](mailto:iyadom@ju.edu.jo)

**Course Objectives:**

- Endorsing the theoretical knowledge of students
- Achieving a thorough understanding of interceptive orthodontic measures that could be dealt with by general dental practitioners
- Understanding the various types and features of malocclusions encountered in orthodontics
- Accomplish proper treatment methods for malocclusions normally encountered in orthodontics
- Constitute proper appliance design for respective malocclusions
- Providing detailed description and guidelines to orthodontic topics relevant to future clinical practice
- Introducing orthodontic aspects of orthognathic surgery
- Understanding the proper orthodontic management of cleft lip and palate patients
- Appreciating the importance of stability after orthodontic treatment and learning the various methods of retention

**Learning Outcomes:**

Successful completion of this course should provide the students with the following learning outcomes:

**A- Knowledge and understanding:**

1. Students should be able to fully understand the various types of malocclusions
2. They should be able to understand the different aspects of treatment of each type of malocclusion

**B- Intellectual skills**

1. Ability to acquire a sound clinical judgment of orthodontic problems

**C- Subject specific skills**

1. Integrate the subjects all together to gain a full understanding of the basics of orthodontics
2. Implement the theoretical knowledge with the clinical skills

**D- Transferable skills**

1. Identifying the malocclusions that fall within the scope of the general dental practitioner
2. Constitute a proper treatment plan for orthodontic cases
3. Identifying the severe orthodontic problems that require treatment by a specialist and instituting the proper referrals

**Teaching methods:**

- Duration: 16 weeks, 16 hours in total.
- Lectures: 14 hours, 1 per week + two weeks for exams.

**Modes of assessment:**

- Midterm exam: 50 points, MCQs.
- Final Exam: 50 points, MCQs.

**Attendance policy:**

Lecture attendance is obligatory. The handout and recommended textbook are not comprehensive and additional material will be covered in lectures. You are responsible for all material covered in lectures.

**Expected workload:**

On average you should expect to spend between 2 and 4 hours per week on this course.

**Course Content & Weight:**

Lecture no.	Subject	Material covered
1-2	Interceptive orthodontics	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Indications</li> <li>• Interceptive procedures</li> <li>• Prognosis</li> </ul>
3-4	Class I malocclusions	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Treatment options</li> </ul>

		<ul style="list-style-type: none"> <li>• Etiology</li> <li>• Skeletal, occlusal and soft tissues features</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment and diagnosis</li> <li>• Appliances</li> <li>• Stability and relapse</li> </ul>
5-6	Class II division 1 malocclusions	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Etiology</li> <li>• Skeletal, occlusal and soft tissues features</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment and diagnosis</li> <li>• Treatment options</li> <li>• Appliances</li> <li>• Stability and relapse</li> </ul>
7	Class II division 2 malocclusions	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Etiology</li> <li>• Skeletal, occlusal and soft tissues features</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment and diagnosis</li> <li>• Treatment options</li> <li>• Appliances</li> <li>• Stability and relapse</li> </ul>
8-9	Class III malocclusions	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Etiology</li> <li>• Skeletal, occlusal and soft tissues features</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment and diagnosis</li> <li>• Treatment options</li> <li>• Appliances</li> <li>• Stability and relapse</li> </ul>
10	Management of Unerupted teeth	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Etiology</li> <li>• Assessment and diagnosis</li> </ul>	<ul style="list-style-type: none"> <li>• Treatment options <ul style="list-style-type: none"> <li>○ Surgical</li> <li>○ Orthodontics</li> <li>○ Others</li> </ul> </li> </ul>
11	Retention and relapse	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Occlusal changes</li> <li>• Factors occlusal, dental, soft tissues, growth,</li> </ul>	<ul style="list-style-type: none"> <li>• Duration</li> <li>• Type of retainers</li> </ul>
12	Surgical Orthodontics	<ul style="list-style-type: none"> <li>• Assessment</li> <li>• Indication Team work Planning</li> <li>• Orthodontic preparation</li> </ul>	<ul style="list-style-type: none"> <li>• Surgical procedures</li> <li>• Stability and relapse</li> </ul>
13	Cleft lip and Palate	<ul style="list-style-type: none"> <li>• Definition &amp; classification</li> <li>• Etiology</li> <li>• Dental Features &amp; growth</li> </ul>	<ul style="list-style-type: none"> <li>• Management surgical &amp; orthodontics</li> <li>• Prognosis and Stability</li> </ul>
14	Selection of Orthodontic cases for treatment by GDP	<ul style="list-style-type: none"> <li>• Case selection</li> <li>• When to refer</li> </ul>	<ul style="list-style-type: none"> <li>• Timing</li> </ul>

### **Feedback:**

Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lectures, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail.

## **References and Supporting Material:**

*Strongly recommended:*

- **An Introduction to Orthodontics.** L. Mitchell, N.E. Carter (2007) 3<sup>rd</sup> edition. . Oxford University Press.

*Also recommended:*

- **Contemporary Orthodontics.** W.R. Proffit (2007) 4<sup>th</sup> edition. . Mosby Year Book.
- **A Textbook of Orthodontics.** W.J.B. Houston, C.D. Stephens and W.J. Tulley (2003). , 3<sup>rd</sup> Edition. Wright, Butterworth-Heinemann Ltd.