

** Course Plan **

Course Title: Theoretical orthodontics 1	Course Number: 214402	Field of Study: Dentistry- Undergraduate
Course Units (Number & Type): 1 unit- Theoretical	Prerequisite Courses: -	Educational Department: Orthodontics
Email : L.sadegholbanaei@dnt.mui.ac.ir	Phone Number & Visiting Time: 03137925535 – every day (8:45 -12:00)	Course Director: Dr Leila Sadeghalbanai
Semester: First semester of 1405-1406	Name of Lecturers: Dr. Mahshid Biglari, Dr.Leila Sadeghalbanai, Dr. Amin Ansarinia and Dr. Amirhossein Toghrolan	

Aims: Acquire knowledge of history, terminology, orthodontic principles, and craniofacial growth and development

Cognitive domain:

1. Acquire knowledge of normal occlusion, malocclusion, and its types.

2. Acquire knowledge of the craniofacial embryology.

3. Acquire knowledge of the craniofacial growth and development after birth.

4. Acquire knowledge of the development of occlusion.

Affective domain:

1. Believe that having knowledge of normal occlusion and different malocclusions is crucial for appropriate diagnosis.

2. Believe that having knowledge of the craniofacial embryology is essential for diagnosing the possible causes of malocclusions.

3. Feel a sense of duty to diagnose abnormal growth patterns in growing patients.

4. Acquire knowledge of the abnormal developmental conditions in the craniofacial region.

Behavioral domain:

1. Be able to use correct orthodontic terminology to describe various conditions.

2. Be able to distinguish between malocclusions and normal occlusion.

3. Apply knowledge of normal craniofacial embryology to diagnose potential causes of malocclusions.

4. Be able to differentiate between normal growth and developmental stages, and pathological conditions during patient examinations.

5. Acquire the ability to estimate patients' dental age from panoramic radiographs.

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References:

1. Contemporary Treatment of Dentofacial Deformity/ W Proffit/ 2002/ Chapter 2, 4
2. Text Book of Orthodontics/ SE Bishara/ 2001/ Chapter 9-13
3. Color Atlas of Dental Medicine, Orthodontic Diagnosis/ T Rakosi/ 2013/ Page 45-56
4. Glossary of Orthodontic Terms/ J Daskalogiannakis/ 2000
5. Orthodontic principles and technique/ Graber/ 2017/ Chapter 1
6. Growth and development. Facial growth/ Enlow/ 2008/ Chapter 8

Evaluations:

Mid-Term Exam: First 8 sessions	Date and Score: According to educational Calander – 10 points
Final Exam: Final 8 sessions	Date and Score: According to educational Calander – 10 points
Other Evaluation Methods (quiz, assignment,): The student could design one question from each instructors' topics and submit it in the discussion forum of the Navid system within the specified time frame set by the respective instructor. (If the question is submitted within the specified time frame, the student will receive 0.25 bonus points. If the student's question is used in the exam, the student will receive 0.5 bonus points.)	Score: 2 bonus points

Course rules:

Submission of assignments: Submitting assignments on time is mandatory. Assignments submitted after the deadline will not receive any points.

In person sessions:

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- Punctuality, full attendance during the entire class, and readiness to participate are mandatory.
- Bringing paper and a pen is required.

Online sessions:

- Punctuality, full attendance during the entire class, and readiness to participate are mandatory.
- To be prepared for participation in discussions, it is necessary to be in a suitable environment (appropriate background / no noise) and to wear appropriate clothing that allows for quick access to the camera and microphone.
- When entering the virtual class, please correct your username to: Last Name - First Name - Student ID.
- The chat box is only for asking questions related to the lesson and responding to the questions asked. Refrain from making jokes or posting irrelevant or inappropriate messages that are not in line with the class decorum.

Handling violations of class rules: Points will be deducted according to the department's discretion and in proportion to the violation.

Duties of the Class Representative:

Timely dissemination of messages from the educational department and instructors to other students.

Online Sessions:

- Open the online class room 10-5 minutes before the class starts, to ensure software readiness and assist in troubleshooting audio and video connection issues for the instructor and other students.
- Record the online classes, name the file according to the specified format (e.g., "Ortho 1 Nazari Jalase 10 Dr M.Biglari"), upload it to Google Drive, share the link with other students, and send it to the instructor within 48 hours after the class.

Rules for Absence and Delays:

Maximum Allowable Absences: The maximum allowable absence is equivalent to four-seventeenths of the unit. Absences beyond this, for any reason, will result in a grade of zero or course removal.

Unexcused absences: If the number of unexcused absences exceeds four-seventeenths of the unit, a grade of zero will be recorded.

One unexcused absence: It may be forgiven.

Two unexcused absences: Half a point will be deducted.

Three unexcused absences: One point will be deducted.

Four unexcused absences: Two points will be deducted.

If an online class is held, virtual attendance is mandatory, and recording or access to the class video does not justify the absence from the online session.

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Excused absences: An excused absence is one that is recognized by the teacher/ professor as valid up to 2 weeks after the date of absence. The student's request, along with necessary documents, must be submitted to the educational office, and the result of the review will be communicated to the departments. (For medical reasons, necessary documents include a doctor's certificate verified by the university's approved doctor.) Excused absences up to the allowed limit will still result in point deductions.

In case of illness, visiting the university-approved doctor, obtaining and verifying the certificate, and submitting it to the department must be done within a maximum of two weeks from the date of absence.

According to the educational council's approved regulations, any delay in theoretical classes is considered an absence.

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Theoretical orthodontics 1, First Semester of 1405-1406, Location: Classroom 6, New Building (Tuesdays), and Classroom 11, Old Building (Wednesdays)

Days: Tuesdays and Wednesdays

Time: Tuesdays (Rotations 1 and 2: Groups CDE and 7th-semester international students), 07:30–08:30; Wednesdays (Rotations 1 and 2: Groups ABF), 11:15–12:15

Recorded offline audio content is available through the Navid system.

Number	Date	Topic	Instructor	Format	/ Pre-study Assignment/ / Quiz Discussion	Reference
1	1405/06/31 1405/07/01	Introduction and Basic principles of orthodontics	Dr.Leila Sadeghalbanai	In-person	Quiz	Proffit 2026/ pages 2-5, 9-12
2	1405/07/07 1405/07/08	Orthodontic terminology	Dr.Leila Sadeghalbanai	In-person	Quiz	Rakosi and Graber Atlas 2013/ pages 45-56
3	1405/07/14 1405/07/15	Normal occlusion	Dr.Leila Sadeghalbanai	In-person	Quiz	Proffit 2026/ pages 3-5 Graber 2017/ pages 208-218
4	1405/07/21 1405/07/22	Types of Malocclusions	Dr.Leila Sadeghalbanai	In-person	Quiz	Graber 2017/ pages 218-228
5	1405/07/28 1405/07/29	Types of Malocclusions	Dr.Leila Sadeghalbanai	In-person	Quiz	Graber 2017/ pages 218-228
6	1405/08/05 1405/08/06	Principles of Growth and development	Dr. Amirhossein Toghrolan	In-person	Quiz at the end of the session	Proffit 2026/ pages 23-29
7	1405/08/12 1405/08/13	Principles of Growth and development	Dr. Amirhossein Toghrolan	In-person	Quiz in Navid	Proffit 2026/ pages 29-35
8	1405/08/19 1405/08/20	Principles of Growth and development	Dr. Amirhossein Toghrolan	In-person	Quiz in Navid	Proffit 2026/ pages 35-41
9	1405/08/26 1405/08/27	Principles of Growth and development	Dr. Amirhossein Toghrolan	In-person	Quiz in Navid	Proffit 2026/ pages 41-51
10	1405/09/03 1405/09/04	Craniofacial growth and development (after birth)	Dr. Mahshid Biglari	In-person	Quiz at the end of the session	Proffit 2026/ pages 62-69
11	1405/09/10 1405/09/11	Craniofacial growth and development (after birth)	Dr. Mahshid Biglari	In-person	Quiz in Navid	Proffit 2026/ pages 85-90

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12	1405/09/17 1405/09/18	Craniofacial growth and development (after birth)	Dr. Mahshid Biglari	In-person	Quiz in Navid	Proffit 2026/ pages 90-94
13	1405/09/24 1405/09/25	Craniofacial growth and development (after birth)	Dr. Mahshid Biglari	In-person	Quiz in Navid	Proffit 2026/ pages 94-103
14	1405/10/01 1405/10/02 Note: class on this date is cancelled; make-up class will be held Saturday 1405/09/28	Development of occlusion	Dr. Amin Ansarinia	In-person	Quiz at the end of session	Proffit 2026/ pages 68-75
15	1405/10/08 1405/10/09	Development of occlusion	Dr. Amin Ansarinia	In-person	Quiz at the end of session	Proffit 2026/ pages 76-83
16	Offline	Facial types	Dr. Amin Ansarinia	Offline recorded) (audio file	Assignment	Proffit 2026/ pages 160-168 Enlow 2008/ pages 139-166