



The Hebrew University of Jerusalem

Syllabus

Orthodontics - 4th year - 97716

Last update 23-01-2024

HU Credits: 6

Degree/Cycle: 2nd degree (Master)

Responsible Department: Dental Medicine

Academic year: 0

Semester: Yearly

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Dr. Atalia Wasserstein

Coordinator Email: ataliawa@gmail.com

Coordinator Office Hours: Thursday 11:00-12:00

Teaching Staff:

Dr. Menahem Friedman,
Prof Stel Chaushu,
Dr. Oded Yitschaky,
Dr. Atalia Wasserstein,
Dr. Zvi Muster,
Dr. Hadas Orbach,
Dr. liad BADIHI HAUSLICH,
Dr. yehuda klein,
Dr. Roos Herve-Asher,
Dr. Yossi Abed,
Dr. Avraham Leibovich,
Dr. Boaz Tzur

Course/Module description:

The curriculum in the 4th year is comprised of frontal lectures and exercises in small groups, aimed to demonstrate and practice subjects discussed in the frontal lectures. Main topics taught in this year: etiology of malocclusion, theories and biology of tooth movement. malformations and clefts, facial and space assessment, removable appliances, space maintaining, anchorage, retention

Course/Module aims:

Acquaintance and understanding of etiology of malocclusion, biology of orthodontic forces and tissue response to orthodontic tooth movement.
Acquaintance and understanding of removable and fixed appliances including their design. Knowledge of the various malocclusions including treatment methods.
Space evaluation and space saving.
Theoretical learning of the course content and implementation of facial and space assessment

Learning outcomes - On successful completion of this module, students should be able to:

- Distinguish between early signs of malocclusion and normal development.
- Describe and explain theories of general and local factors of malocclusion.
- Describe and explain theories of the biology of orthodontic forces and tissue response to orthodontic tooth movement.
- Perform space and facial evaluation
- Plan removable appliances and • understand the use of fixed appliances
- Use diagnostic aids

This course supports the following HUHSDM Professional Practice Competencies: 1.2 , 2.9

Attendance requirements(%):

80%

Teaching arrangement and method of instruction: Lectures & Exercises

Course/Module Content:

- tiologic Factors for malocclusions.*
 - Tissue response to orthodontic tooth movement.*
 - Removable appliances*
 - Fixed appliances*
 - Malocclusions: etiology, diagnosis and treatment.*
 - Space and Facial evaluation*
 - Space maintainers*
 - Principles of anchorage*
- 26.12.24 Functional development Dr. Liad Badihi Hauslich Tissue changes in orthodontic treatment*
- Functional causes to malocclusions*

02.01.24

Tissue changes in orthodontic treatment Dr. Yehuda Klein

09.01.24 Tissue changes in orthodontic treatment

Local factors to malocclusion Dr. Avi Leibovich

16.01.24 Local factors to malocclusion

Dr. Avi Leibovich

23.01.24 Local factors to malocclusion

Intruduction to Orthodontic appliances

Dr. Avi Leibovich

23.01.24 The components of orthodontic removable appliances and planning principles

The components of orthodontic removable appliances and planning principles

Dr. Boaz Tzur

30.01.24 The components of orthodontic removable appliances and planning principles

06.02.24 Introduction: Removable appliance planning

Dr. Zvi Muster

Exercise: removable appliance planning

13.02.24

Exercise: removable appliance planning

Dr. Zvi Muster

Fixed appliances Dr. Yossi Abed

20.02.24 Fixed appliances

Dr. Yossi Abed

Uprighting & forced eruption Dr. Yossi Abed

05.03.24

Loss of tooth material and early extractions

Loss of tooth material and early extractions Dr. Boaz Tzur

12.03.24 Space maintaining appliances

Space maintaining considerations Dr. Boaz Tzur

19.03.24 Class II: etiology, DD and treatment

Dr. Boaz Tsur

Functional appliances Dr. Boaz Tsur

2nd Semester:

06.05.24 Removable plates with active base

Posterior x-bite: etiology, DD and treatment Dr. Oded Yitschaky

Dr. Oded Yitschaky

20.05.24 Enlarged overjet: etiology, DD and treatment

Midline diastema Dr. Hadas Orbach

27.05.24 Anterior x-bite and classIII: Etiology, DD and treatment Dr. Oded Yitschaky

03.06.24 Deep overbite

Removable plates with bite planes Dr. Hadas Orbach

10.06.24 Open- bite

Loss of space: Etiology, DD and Treatment Dr. Menahem Friedman

*17.06.24 Principles and types of anchorage
Anchorage planning Dr. Menahem Friedman*

*24.06.24 Intra and extraoral anchorage
Dr. Hadas Orbach*

*Space evaluation in the mixed dentition
Dr. Menahem Friedman*

01.07.24 Exercise - Space evaluation in the mixed dentition Dr. Menahem Friedman

08.07.24 Exercise - Space evaluation in the mixed dentition Dr. Menahem Friedman

15.07.24 Exercise - Space evaluation in the mixed dentition Dr. Menahem Friedman

*22.07.24 Methods of assessment of the face
Assessment of the face - exercise Dr. Hadas Orbach*

*29.07.24 Orthosurgery Dr. Menahem Friedman
Orthosurgery
Dr. Menahem Friedman*

Required Reading:
None

Additional Reading Material:

1. Enlow DH, Hans MG. Essentials of Facial Growth. 2nd ed. Ch. 1-8, 12-14, 16. WB Saunders Co. 2008.

2. Proffit W, Fields HW, Sarver DM, Contemporary Orthodontics. 5th ed. The Mosby Co. 2012.

Grading Scheme:

Written / Oral / Practical Exam 100 %

Additional information:

The written exam will include course material of the course 97351.