



The Hebrew University of Jerusalem

Syllabus

Orthodontics - 4th year - 97716

Last update 06-03-2019

HU Credits: 5

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: Tuesday 10:00-12:00

Teaching Staff:

Dr. Menahem Friedman
Dr.
Dr. Miriam Haisraeli-Shalish
Prof Stel Chaushu
Dr. Omer Fleissig
Dr. Atalia Wasserstein
Dr.
Dr. Carmela Engel
Ms.
Dr.
Dr.
Dr.
Dr.

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: craniofacial growth and development, development of occlusion, functional development, classification of malocclusion, 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 craniofacial and occlusal development, etiology of malocclusion, functional development and functional causes of malocclusion, biology of orthodontic forces and tissue response to orthodontic tooth movement and classification of malocclusions.
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:

- Describe and explain theories of craniofacial growth and development and how they affect the dento-facial area.
- Distinguish between early signs of malocclusion and normal development.
- Classify malocclusions.
- 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 face evaluation
- Plan removable appliances

Attendance requirements(%):

80%

Teaching arrangement and method of instruction: Lectures & Exercises

Course/Module Content:

- *Growth and development of the craniofacial complex.*
- *Somatic growth - normal and abnormal.*
- *Development of occlusion.*
- *Classification of malocclusions.*
- *Local factors for malocclusions.*
- *Premature loss of primary teeth.*
- *Functional development.*
- *Functional causes of malocclusions.*
- *Habits.*
- *Tissue response to orthodontic tooth movement.*
- *Introduction to orthodontic appliances*
- *Removable plates - structure and design*
- *Removable plates*
- *Facial evaluation*
- *Loss of space - etiology, differential diagnosis and treatment*
- *Space analysis in the mixed dentition*
- *Space maintainers*
- *Principles of anchorage*
- *Principles of retention*

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.

Course/Module evaluation:

End of year written/oral examination 100 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

None