Syllabus

Imaging methods in Orthodontics - 97999

Last update 16-12-2014

HU Credits: 5

Degree/Cycle: 2nd degree (Master)

Responsible Department: Dentistry

Academic year: 1

Semester: Yearly

Teaching Languages: English

Campus: Ein Karem

Course/Module Coordinator: Dr Abed yossi

Coordinator Email: abedy@cc.huji.ac.il

Coordinator Office Hours: Monday and Tuesday, by appointment

Teaching Staff:
Yossi Abed
Ilana Brin
Yocheved Ben-Bassat  
Silvina Friedlander  
Micheal Yitschaky  
Moshik Tandlich

**Course/Module description:**
This course provides a broad insight into both the theoretical and the practical aspects of cephalometrics and imaging as essential tools in orthodontic diagnosis and follow-up.

**Course/Module aims:**
To present the basics of cephalometrics and other modern imaging techniques. To discuss and practice a variety of cephalometric analyses.

**Learning outcomes - On successful completion of this module, students should be able to:**
Make an orthodontic diagnosis based on cephalometrics and other imaging systems.

**Attendance requirements(%):**
100%

**Teaching arrangement and method of instruction: frontal lectures and seminars and practical sessions. Reading assignments for each seminar session is to provide background information for class discussions related to the scheduled topics.**

**Course/Module Content:**
Prof Ben Bassat & Brin Introduction & Landmark identification- tracing exercise (1)  
20/10/14 Mon 11:15-14:00

2 2 Prof Brin Landmark identification and tracing exercise (1) 23/10/14 Thur 9:15-12:00

3 3 Dr. Abed Steiner analysis 27/10/14 Mon 13:15-16: 00

4 4 Dr. O. Yitschaky Downs analysis 03/11/14 Mon 11:15-14:00

5 5 Dr. Abed Sassouni analysis including Proportional Analysis 10/11/14 Mon 8:15-11:00

6 6 Dr. Shipperman Wylie, Tweed, Wits analyses 11/11/14 Tues 10:15-13:00

7 8 Dr. Friedlander Pathology in cephalometric radiographs 16/11/14 Sun
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
<th>Date</th>
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<tbody>
<tr>
<td>13:30-16:00</td>
<td>Dr. Friedman</td>
<td>Ricketts analysis including A-P analyses and A-Pog</td>
<td>17/11/14</td>
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<td>Mon 09:15-12:00</td>
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<tr>
<td>09:15-12:00</td>
<td>Dr. M. Yitschaky</td>
<td>Bjork and Jarabak analyses</td>
<td>23/11/14</td>
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<td>Sun 10:30-12:30</td>
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<tr>
<td>10:15-13:00</td>
<td>Dr. Friedman</td>
<td>Visual Treatment Objectives &amp; Growth Prediction</td>
<td>24/11/14</td>
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<td>Mon 10:15-13:00</td>
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<tr>
<td>08:00-10:00</td>
<td>Dr. O. Yitschaky</td>
<td>McNamara analysis</td>
<td>01/12/14</td>
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<td>Mon 12:30-15:00</td>
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<tr>
<td>10:15-12:30</td>
<td>Dr. Tendlich</td>
<td>Introduction to Digital Photography</td>
<td>02/12/14</td>
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<td>Tue 10:15-12:30</td>
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<tr>
<td>09:15-13:00</td>
<td>Dr. Dykstein</td>
<td>Principles of Orthodontic Photography</td>
<td>10/12/14</td>
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<td>Wed 10:15-13:00</td>
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<td>11:30-13:00</td>
<td>Dr. Weinberger</td>
<td>Radiation Risk in cephalometry</td>
<td>14/12/14</td>
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<td>Sun 11:30-13:00</td>
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<td>10:00-12:30</td>
<td>Dr. Katz</td>
<td>Soft tissue &amp; Air way analysis</td>
<td>16/12/14</td>
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<td>Tue 10:00-12:30</td>
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<td>10:15-13:00</td>
<td>Dr. Katz</td>
<td>Superimpositions</td>
<td>23/12/14</td>
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<td>Tue 10:15-13:00</td>
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<td>08:00-10:00</td>
<td>Dr. Abed</td>
<td>Computerized cephalometry - background</td>
<td>06/01/15</td>
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<td>Tue 08:15-11:00</td>
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<td>08:15-11:00</td>
<td>Dr. Abed</td>
<td>Computerized cephalometry &amp; Imaging Exercise</td>
<td>13/01/15</td>
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<td>Tue 08:15-11:00</td>
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<tr>
<td>09:30-12:30</td>
<td>Dr. Hiler or Dr. Friedlander</td>
<td>Computerized tomography (CT) basics and background</td>
<td>20/01/15</td>
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<td>Tue 09:30-12:30</td>
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<td>10:15-13:00</td>
<td>Dr. Abed</td>
<td>3D cephalometry</td>
<td>27/01/15</td>
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<td>08:15-11:00</td>
<td>Dr. Abed</td>
<td>Computerized Imaging &amp; enhancing software</td>
<td>03/02/15</td>
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<td>Tue 08:15-11:00</td>
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<td>10:00-12:30</td>
<td>Dr. Shipperman</td>
<td>Space Analysis: Basic principles and systems</td>
<td>10/02/15</td>
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<td>Tue 10:00-12:30</td>
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<td>13:15-16:00</td>
<td>Dr. Ross</td>
<td>Computerized space analysis</td>
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**Required Reading:**

2. A. Jacobson (ed): *Radiographic Cephalometry from Basic to 3-D imaging*, 2nd Ed 2006 Ch. 3(33-43).

**Optional**


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**Required**

1. A. Jacobson (ed): *Radiographic Cephalometry from Basic to 3-D imaging*, 2nd Ed 2006 Ch. 7( 71-78)

Recommended
4. C.C Steiner Cephalometrics as a clinical tool Vistas in Orthodontics 1962

4

Required

Recommended

5

Required
1. A. Jacobson (ed): Radiographic Cephalometry from Basic to 3-D imaging ,2nd Ed 2006 Ch. 15 (161-184)

Recommended

6

Required
5. Baik CY, Ververidou M: A new approach of assessing sagittal discrepancies: the

Recommended

7
Required

Recommended

8
Will be published later
9
Required

Recommended
Required

Recommended

11
Required

Recommended

12
Recommended
(619-625) 2002

13

Required

14

Required

15

Required

Recommended

Airway

Required

Recommended

Required

17
Required
1. A. Jacobson (ed): Radiographic Cephalometry from Basic to 3-D imaging ,2nd Ed Ch.. 20 (219-231) & Ch. 21 (233-247) & Ch. 22(249-266).

Recommended
2. Graber T.M : Orthodontics: Current principles and Techniques.3th Ch 8 (353-374)

18
Required

19
Will be published later
20
Will be published later
21
Required
1. Demetrios J. Halazonetis, DMD, MSa, Martin N. Abelson, AB, DDS, ABOb: Digital image processing: How to retouch your clinical photographs, American Journal of Orthodontics and Dentofacial Orthopedics, October 2000, Volume 118, Number 4, p469 to p475.
Recommended
2. Michael L. Swartz: Managing digital images,

22+23

Required


24
Will be published later
Course evaluation: Written and practical test

Additional Reading Material: None

Course/Module evaluation:
End of year written/oral examination 80 %
Presentation 0 %
Participation in Tutorials 10 %
Project work 10 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:
None