Course Director : Dr. Nabeel Talic

Contributors : Prof. Nasser Al-Jasser  
Prof. Mohammad Bukhary  
Dr. Adel Alhadlaq  
Dr. Abdullah Edris  
Dr. Naif Bin Mosa  
Dr. Mohammad Al-Dosari

Course Description:

Knowledge of the basic of orthodontics is essential for the dental student. This course will provide the undergraduate student with the background of the normal occlusion, malocclusion, growth and development of dento-facial structures, etiology and diagnosis of malocclusion, and the treatment of discrepancies.

The course is an introductory course and consists of lectures and practical parts. The course is conducted through the whole academic year in two semesters.

First and Second Semester:

Will consist of two parts:

| One Hour | lecture |
| Three Hour | Practical |

Evaluation:

Student shall be evaluated by their performance during the course by continuous assessment and final examination. The total mark 100% and distributed as follows: 60% for the continuous assessment and 40% for the final examination. The detail of the distribution is described in the following table.

<table>
<thead>
<tr>
<th>Continuous Assessment</th>
<th>Final Examination</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester - 30%</td>
<td>Second semester – 30%</td>
<td>40%</td>
</tr>
<tr>
<td>AS/Q</td>
<td>PE1</td>
<td>WE1</td>
</tr>
</tbody>
</table>
INSTRUCTIONS TO THE STUDENT

1. Student should expect the quiz at any lecture day without previous announcement.

2. Attendance is a **MUST**; each is counted as 0.5 point out of the total mark. Any student who does not attend the lecture or the laboratory session **MUST** submit to the course director the reason(s) of his absence.

3. Examination dates will not be changed. Any student who does not attend the examination **MUST** submit a letter to the course director.

4. Examination will include any type of questions. Students **are not allowed** to ask about the type of the examination or the type of questions.

5. During the laboratory session, students should maintain their cubicle clean. In addition, the unit’s light **MUST** be turned-off before leaving.

6. All laboratory assignments **MUST** be submitted in the same session. Any delay will not be accepted.

7. Students **MUST** bring their instruments during every laboratory session expect for ortho study cast. **NO EXCUSE IS ALLOWED.** (Please review the course outline before the session and bring the instruments required)

**Required Textbooks:**

1. An Introduction to Orthodontics  
   By: Laura Mitchell  
   Oxford University Press, 2001

/ Betchay. September 1, 2007
## LECTURE & PRACTICAL OUTLINE

**First Semester**  
Sunday, 8:00 AM-12:00 NN, Room 27/GA

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>LECTURE</th>
<th>PRACTICAL</th>
</tr>
</thead>
</table>
| 1    | 9 Sept. | Introduction to the Course  
   → Dr. Talic | Introduction to the laboratory |
| 2    | 16 Sept. | Facial Growth I (Chap. 4, L.M.)  
   → Prof. Bukhary | Class I, II and III Malocclusion  
   - Description using models  
   - Definition, types, managements, etc. |
| 23 Sept. | NATIONAL DAY OFF |
| 3    | 30 Sept. | Facial Growth II (Chap. 4, L.M.)  
   → Prof. Bukhary | Study Models – I  
   - Impression of students, and pouring |
| 4    | 21 Oct. | Developing Dentition (Chap. 3, L.M.)  
   → Prof. Bukhary | Study Models – II  
   - Demonstration of model trimming and finishing |
| 5    | 28 Oct. | Orthodontic Diagnosis I  
   (Chap. 6, ProfiFit)  
   → Dr. Talic | Study Models – III  
   - Trimming and finishing |
| 6    | 4 Nov. | Orthodontic Diagnosis II  
   (Chap. 6, ProfiFit)  
   → Dr. Talic | Radiographs (OPG, Occlusal, Posterior-anterior Radiographs) |
| 7    | 11 Nov. | Etiology of Malocclusion  
   (Chap. 5, ProfiFit)  
   → Dr. Talic | Hand and Wrist Radiograph  
   Description Of the method and application of analysis using hand & wrist x-ray |
| 8    | 18 Nov. | Cephalometrics I (Chap. 6, L.M.)  
   → Prof. Jasser | Cephalometric I  
   - Tracing using student’s own cephalograph |
| 9    | 25 Nov. | Cephalometrics II (Chap. 6, L.M.)  
   → Prof. Jasser | Cephalometric II  
   - Landmarks identification |
| 10   | 2 Dec. | Class I (Chap. 8, L.M.)  
   → Dr. Edris | Cephalometric III  
   - Measurements & interpretation |
| 11   | 9 Dec. | Class II Div I (Chap. 9, L.M.)  
   → Dr. Edris | Model Analysis  
   - Permanent model analysis  
   - Moyer’s analysis |
| 12   | 30 Dec. | Class II Div 2 (Chap. 10, L.M.)  
   → Dr. Edris | Case presentations |
| 13   | 6 Jan. 2008 | Class III (Chap. 11, L.M.)  
   → Dr. Edris | Case presentations |
| 14   | 13 Jan. | Malocclusal Problems (Chap. 12 & 13, L.M.)  
   → Dr. Alhadlaq | Case presentations |
| 15   | 20 Jan. | WRITTEN EXAMINATION | Case presentation |
| 16   | 27 Jan. | PRACTICAL EXAMINATION | PRACTICAL EXAMINATION |

**RAMADAN / EID VACATION**  
(October 4 – 19, 2007)

**HAJJ HOLIDAY**  
(December 13 – 28, 2007)

/Betchay. September 1, 2007 updated
# Second Semester
**Sunday, 8:00 AM-12:00 NN**

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>LECTURE</th>
<th>PRACTICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17 Feb.</td>
<td>Treatment Planning (Chap. 7, L.M.)&lt;br&gt;→ <strong>Dr. Edris</strong></td>
<td>Introduction&lt;br&gt;- Instrumentation description</td>
</tr>
<tr>
<td>2</td>
<td>24 Feb.</td>
<td>Interceptive Orthodontics (Chap. 6, Thilander)&lt;br&gt;→ <strong>Dr. Alhadlaq</strong></td>
<td>Holding arches&lt;br&gt;- Demonstration of Nance arch, transpalatal arch</td>
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<td>3</td>
<td>2 March</td>
<td>Canines (Chap. 14, L.M.)&lt;br&gt;→ <strong>Dr. Alhadlaq</strong></td>
<td>Holding Arches&lt;br&gt;- Demonstration of Lingual arch, Quadhelix</td>
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<td>4</td>
<td>9 March</td>
<td>Removable appliances (Chap. 16, L.M.)&lt;br&gt;→ <strong>Prof. Al-Jasser</strong></td>
<td>Labial Bow&lt;br&gt;- Demonstration on Dental Model</td>
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<td>5</td>
<td>16 March</td>
<td>Functional Appliances (Chap. 18, L.M.)&lt;br&gt;→ <strong>Prof. Bukhary</strong></td>
<td>Functional and Removable Ortho. Appliances&lt;br&gt;- Description of the appliances using Samples -definition, Types, Component, etc.</td>
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<tr>
<td>6</td>
<td>23 March</td>
<td>Fixed Appliances (Chap. 17, L.M.)&lt;br&gt;→ <strong>Prof. Bukhary</strong></td>
<td>Z-Spring &amp; Finger Spring&lt;br&gt;- Demonstration on Dental Model</td>
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<tr>
<td>7</td>
<td>30 March</td>
<td>Orthodontic Treatment Timing (Chap. 7, Proffit)&lt;br&gt;→ <strong>Dr. Talic</strong></td>
<td>Wire bending exercises&lt;br&gt;- Z-spring, Finger spring</td>
</tr>
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<td>8</td>
<td>6 April</td>
<td>Orthodontic Forces and Tissue Reaction (Chap. 9, Proffit)&lt;br&gt;→ <strong>Dr. Talic</strong></td>
<td>Retentive Component; Adams Clasp&lt;br&gt;- Demonstration on Dental Model</td>
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<tr>
<td>9</td>
<td>13 April</td>
<td>MID-SEMESTER BREAK</td>
<td></td>
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<tr>
<td>10</td>
<td>20 April</td>
<td>WRITTEN EXAMINATION 2</td>
<td>Construction of Hawley Retainer&lt;br&gt;- Adams Clasp on tooth # 16 of the student model</td>
</tr>
<tr>
<td>11</td>
<td>27 April</td>
<td>Adverse Effects of Orthodontic Treatment (Chap. IX, Thilander)&lt;br&gt;→ <strong>Dr. Talic</strong></td>
<td>Construction of Hawley Retainer&lt;br&gt;- Adams Clasp on tooth # 26 of the student model</td>
</tr>
<tr>
<td>12</td>
<td>4 May</td>
<td>Adult Orthodontics (Chap. 19, L.M.)&lt;br&gt;→ <strong>Dr. Edris</strong></td>
<td>Construction of Hawley Retainer&lt;br&gt;- Labial bow on the student model</td>
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<tr>
<td>13</td>
<td>11 May</td>
<td>Orthognathic Surgery (Chap. 20, L.M.)&lt;br&gt;→ <strong>Dr. Edris</strong></td>
<td>Construction of Hawley Retainer&lt;br&gt;- Acrylization</td>
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<tr>
<td>14</td>
<td>18 May</td>
<td>Cleft Lip and Palate (Chap. 21, L.M.)&lt;br&gt;→ <strong>Dr. Alhadlaq</strong></td>
<td>Construction of Hawley Retainer&lt;br&gt;- Finishing, Polishing</td>
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<tr>
<td>15</td>
<td>25 May</td>
<td>Stability and Retention (Chap. 18, Proffit)&lt;br&gt;→ <strong>Dr. Alhadlaq</strong></td>
<td>Construction of Hawley Retainer&lt;br&gt;- Delivery of finished retainer</td>
</tr>
<tr>
<td>16</td>
<td>1 June</td>
<td>Orthodontic Emergencies&lt;br&gt;→ <strong>Dr. Talic</strong></td>
<td>Review</td>
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**NOTE:** Your grade will be incomplete IF you don’t return your instruments!

/Betchay. September 1, 2007