



**Islamic University in Najaf - Faculty Of Dentistry  
Quality Assurance and Academic Accreditation unit**

# **Course Description**

**Department of orthodontics**

2024

## Course Description Form

<b>1. Course Name:</b>	
orthodontics	
<b>2. Course Code:</b>	
526 OD Orthodontics	
<b>3. Semester / Year:</b>	
5th year	
<b>4. Description Preparation Date:</b>	
16-4-2024	
<b>5. Available Attendance Forms:</b>	
Available : Lectures and clinical work	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
30 hr. theoretical and 150 hr. practical	
<b>7. Course administrator's name (mention all, if more than one</b>	
Name: Almustafa wisam alhumadi Email: almustfakhafagy@gmail.com	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• A- Knowledge and Understanding</li> <li>• A1. Acquire the knowledge about different treatment for correcting various malocclusion</li> <li>• B1. Learning different methods of diagnosing malocclusion</li> </ul>
<b>9. Teaching and Learning Strategies</b>	

<b>Strategy</b>	<p>Lecture-Based teaching:  Blackboard illustrations  Power point presentation on Data show projector  Teacher-student interaction or Question-answer  In-lecture Quiz</p> <p>Laboratory based teaching;  Demonstration for each clinical step  Clinical training to correct simple malocclusion using the removable and functional appliances and Multimedia presentation and explanation for both laboratory and clinical steps.</p>
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## 10. Course Structure

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	1	<b>Orthodontic diagnosis and treatment planning:</b> a. Personal data b. Consent form c. Clinical examination i. General body stature	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
2	1	ii. Face examination in 3 dimensions iii. skeletal examination iv. Soft tissue examination	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
3	1	v. Occlusion	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
4	1	vi. Dentition vii. Temporomandibular joint	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
5	1	d. Diagnostic aids i. Cephalometrics, computerized cephalometrics)	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
6	1	ii. Orthopantomography Other views	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
7	1	iv. Study models	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

8	1	v. Photography vi. 3D imaging	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
9	1	e. Treatment planning	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
10	1	Treatment of Medically compromised patients	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
11	1	Orthodontic indices	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
12	1	Space analysis, Bolton's ratio	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
13	1	Teeth extraction in orthodontics	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
14	1	Serial extraction	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
15	1	<b>Vertical and transverse problems:</b> a. Deep bite	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
16	1	b. Open bite	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
17	1	c. Crossbite and scissors bite	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
18	1	<b>Treatment of common local factors:</b> a. supernumerary and hypodontia b. Early loss of deciduous teeth c. Retained teeth, delayed eruption, impaction, ankylosis	Orthodontics	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

19	1	f. Bad oral habits	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
20	1	<b>Treatment of aberrant position of canines</b>	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
21	1	<b>Treatment of general factors:</b> a. Class I treatment (crowding, spacing, biprotrusion, biretrusion)	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
22	1	<u>Continue</u> class I treatment (method of space creation)	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
23	1	b. Class II div. 1 treatment	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
24	1	c. Class II div. 2 treatment	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
25	1	d. Class III treatment	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
26	1	<b>Treatment of adults</b> a- Periodontal problems	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
27	1	b- Orthognathic surgery	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
28	1	<b>Cleft lip and palate</b>	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
29	1	<u>Continue</u> cleft lip and palate	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams
30	1	<b>Digital orthodontics</b> (digital work flow, digital smile design, Customized appliances)	Orthodontic S	Theoretical lecture using power point presentation	Quizzes, semester, mid-year and final year exams

11.Course Evaluation	
First semester 20% 1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 4 (laboratory steps evaluation) 5 (1 <sup>st</sup> semester final lab.) Second semester 20% 1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz) 4 (laboratory steps evaluation) 5 (1 <sup>st</sup> semester final lab.) Final 60%	
12.Learning and Teaching Resources	
Required textbooks	<ul style="list-style-type: none"> <li>■ 1. Singh G. Textbook of orthodontics. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.;</li> </ul>
Main references (sources)	<ul style="list-style-type: none"> <li>■ 2. Littlewood SJ, Mitchell L. An introduction to orthodontics. 5th ed. Oxford: Oxford university press; 2019.</li> </ul>
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> <li>■ 3. Nakajima E. Manual of wire bending technique. 1st ed. Chicago: Quintessence Publishing Co., Inc; 2010.</li> </ul>
Electronic References, Websites	<ul style="list-style-type: none"> <li>■ 4. Proffit WR, Fields Jr HW, Larson BE, Sarver DM. Contemporary orthodontics. 6th ed. Philadelphia: Elsevier; 2012.</li> <li>■ 5. Graber LW, Vanarsdall RL, Vig KWL, Huang GJ. Orthodontics: current principles and techniques. 6th ed. St. Louis: Elsevier, Inc.; 2017.</li> </ul>
	<ul style="list-style-type: none"> <li>■ The students are guided to perform seminars and reports and invite them to the continuous education</li> </ul>

## Clinical requirements

Minimum Requirements	Hours
Treatment of one patient: 1- Diagnosis: (Mandatory) <ul style="list-style-type: none"> <li>a- Case sheet filling &amp; presentation</li> <li>b- Upper and lower impression.</li> <li>c- Study models preparation</li> <li>d- Extra &amp; intra oral photographs</li> <li>e- Cephalometric tracing</li> </ul> 2-Treatment plan: (Mandatory) 3- Insertion (Optional) 4- Adjustment or Activation (Mandatory)	

The student should receive at least one orthodontic case to enter the final exam
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