

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

**2024**

## **Academic Program Description Form**

**University Name:** .....

**Faculty/Institute:** .....

**Scientific Department:** .....

**Academic or Professional Program Name:** .....

**Final Certificate Name:** .....

**Academic System:** .....

**Description Preparation Date:**

**File Completion Date:**

**Signature:**

**Head of Department Name:**

**Date:**

**Signature:**

**Scientific Associate Name:**

**Date:**

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance**

**Department:**

**Date:**

**Signature:**

**Approval of the Dean  
Course Description Form**

<b>1. Course Name:</b>	
orthodontics for 4th grade	
<b>2. Course Code:</b>	
<b>3. Semester / Year:</b>	
٢٠٢٤-2025: year	
<b>4. Description Preparation Date:</b>	
٢٠٢٤\٢\١٤	
<b>5. Available Attendance Forms:</b>	
Attendance in the classroom for the theoretical subject	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
30 hours/60 credits	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Hayder Jasim Attar Email: Hjadent @ibnsina.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Preparing the student at a high level of science regarding orthodontics and</li> <li>• identifying the types of pathological conditions and malocclusions, the causes that lead to them, and the types of orthodontic devices.</li> <li>• Skills objectives of the course: <ul style="list-style-type: none"> <li>• 1. Diagnosing cases of malocclusion</li> <li>• 2. Knowing the types of orthodontic devices related to each case.</li> </ul> </li> <li>• Emotional and value goals</li> <li>• Solve problems related to malocclusion using removable orthodontic devices.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>• Lectures using Power Point (data show)</li> <li>• Training in lab for construction of removable orthodontic appliance</li> </ul>

## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Introduction Definition of orthodontics Definition of occlusion, normal occlusion, ideal occlusion malocclusion Six keys of normal occlusion		
2	1		Aims of orthodontic treatment Orthodontic definitions (overjet, overbite, crossbite, spacing)		
3	1		Classification of malocclusion a. Angle's classification including division and subdivisions		
4	1		b. molar, canine, incisor classifications		
5	1		Definitions of growth, development maturity Stages of development		
6	1		Definitions of growth site, growth center, displacement, and drift		
7	1		- Growth and development of hard tissues (cranial base, cranial vault, nasomaxillary complex,		
8	1		Developmental anomalies Jaw rotation adaptation		
9	1		Deciduous and permanent dentition		
10	1		Tooth eruption (stages and theories)		
11	1		Development of occlusion a. new born cavity (relationship of gum pads, neonatal relationships, natal and neonatal teeth)		
12	1		c-Early mixed dentition stage – eruption of first molars and incisors		
13	1		Etiology of malocclusion: Genetic factors and inherited factors Classification of etiological factors General factors		
14	1		ii- Soft tissue (muscles of face mastication, muscles of lip and tongue)		
15	1		b. Local factor i-Extra-teeth (supernumerary) and missing teeth (hypodontia)		
16	1		iii- Early loss of deciduous teeth		
17	1		Abnormal eruptive behavior (displacement, transposition) vi. Large frenum		
18	1		vii. Oral habit viii. Dental caries,		

			improper dental restoration		
19	1		Tooth movement a. Tissue changes associated with tooth movement		
20	1		b. Biomechanics i. Force (application, type, magnitude, duration and direction)		
21	1		iii. Types of tooth movement iv. Rate of tooth movement and factors affecting it		
22	1		Orthodontic appliances a. Overview: i. passive orthodontic appliances (habit breaker, retainer and space maintainer) ii. active orthodontic appliances		
23	1		b. Removable Orthodontic Appliance Properties of various components (SS v acrylic)		
24	1		2) retentive components (clasps) 3) ac base plate and bite planes 4) anchorage		
25	1		iii. Design of a removable orthodontic appliance iv. Construction of a removable orthodontic appliance		
26	1		V.Soldering and welding vi. Post-insertion instructions and guidelines		
27	1		c. Fixed orthodontic appliance:		
28	1		Use of extra-oral anchorage temporary anchorage devices (TADs), and lingual fixed appliances		
29	1		d. Orthopedic and Myofunctional appliance:		
30	1		f. Retention and retainers – Retention (definition, reason, time)		

## 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> <li>• Orthodontics; current principles and technique -Introduction to orthodontic</li> <li>• -Contemporary Orthodontics, William R. Proffit Sixth edition</li> <li>-Textbook of Orthodontics Singh 2007</li> </ul>
Main references (sources)	
Recommended books and references (scientific)	

journals, reports...)	
Electronic References, Websites	