

Republic of Yemen

Ministry of Higher Education & Information Technology

Emirates International University



**Faculty of Dentistry**

**Department of POP**

**Doctor of Dental Surgery (DDS)**

**Course Specification of**

**Orthodontics IV (clinical)**

**Course No. (-----)**



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty



## I. Course Identification and General Information:

1	Course Title:	Orthodontics IV (clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	--	3
4	Study Level/ Semester at which this Course is offered:	5 <sup>th</sup> Level / 1st Semester			
5	Pre –Requisite (if any):	Orthodontics III (clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Dr.Ghamdan Abdullah Al-Harazi			

## II. Course Description:

This is a clinical course of orthodontics, in which the students will know the risk and benefits of orthodontic treatment, retention and relapse, management of impacted canine, and gives an introduction to surgical orthodontics. Student will present seminars about different topics determined by the instructor. The clinical part will continue to cover diagnosis, radiological and clinical examinations of selected cases, orthodontic study models, photographs and cephalometric evaluation, preparation of treatment plans with limited treatment of orthodontic problems encountered in the general practice.

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program		
A. Knowledge and Understanding:		I, A or E		
a1	know the principles and fundamentals of clinical orthodontics			A1
a2	understand the principles of surgical orthodontics and management of impaction of canine according to rules and ethics that regulate the role of GP in the team			A1,A3
a3	Determine the risks and benefits of orthodontic treatment and how to overcome its complications			A4,A5
<b>B. Intellectual Skills:</b>				
b1	Select orthodontic materials according to the appliance design			B5
b2	outline a treatment plan according to patient's need attending the undergraduate clinics			B3
b3	Design the best retention method after finishing the treatment to prevent any relapse			B3
<b>C. Professional and Practical Skills:</b>				
c1	Apply infection control protocols during clinics			C3
c2	Identify patient's chief complaint, appearance and attitude, obtain and interpret medical, social and dental history, conduct clinical and radiographic examination, and distinguish between normal and pathological hard and soft tissue abnormalities of the orofacial area			C1,C4

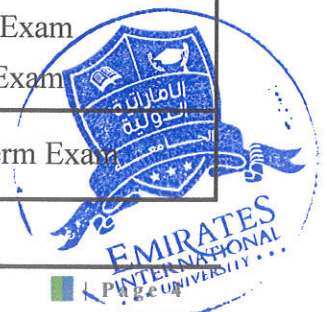
	and create a treatment plan			
c3	Plan when, how and where to refer patients according to clinical assessment			C5
<b>D. Transferable Skills:</b>				
d1	Use the latest technology for presenting and collecting data.			D2
d2	Manage time and resources.			D4
d3	Maintain full and accurate clinical records			D5

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	know the principles and fundamentals of clinical orthodontics	Lectures Brainstorming Discussion	Midterm Exam Final Exam Oral Exam
a2	understand the principles of surgical orthodontics and management of impaction of canine according to rules and ethics that regulate the role of GP in the team	Lectures Brainstorming Discussion	Midterm Exam Final Exam Oral Exam
a3	Determine the risks and benefits of orthodontic treatment and how to overcome its complications	Lectures Brainstorming Discussion	Midterm Exam Final Exam Oral Exam

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Select orthodontic materials according to the appliance design	Lectures Brainstorming	Midterm Exam Final Exam Oral Exam
b2	outline a treatment plan according to patient's need	Lectures	Midterm Exam



	attending the undergraduate clinics	Brainstorming	Final Exam Oral Exam
b3	Design the best retention method after finishing the treatment to prevent any relapse	Lectures Brainstorming	Midterm Exam Final Exam Oral Exam

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Apply infection control protocols during clinics	Training	Observation Practical Exam
c2	Identify patient's chief complaint, appearance and attitude, obtain and interpret medical, social and dental history, conduct clinical and radiographic examination, and distinguish between normal and pathological hard and soft tissue abnormalities of the orofacial area and create a treatment plan	Training	Observation Practical Exam
c3	Plan when, how and where to refer patients according to clinical assessment	Training	Observation Practical Exam

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Use the latest technology for presenting and collecting data.	Training Brainstorming Discussion	Homework Practical Exam
d2	Manage time and resources.	Training Brainstorming Discussion	Homework Practical Exam
d3	Maintain full and accurate clinical records	Training Brainstorming Discussion	Homework Practical Exam



## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Risks and benefits of orthodontic treatment	<ul style="list-style-type: none"> <li>• Main risks and benefits of orthodontic treatment</li> <li>• Prevention and treatment of complications related to orthodontic treatment</li> </ul>	1,2	2	a3,b2
2	Management of unerupted maxillary canine	<ul style="list-style-type: none"> <li>• Incidence</li> <li>• Etiology</li> <li>• Assessment and diagnosis</li> <li>• Treatment options <ul style="list-style-type: none"> <li>- Surgical</li> <li>- Orthodontics</li> <li>- others</li> </ul> </li> </ul>	3,4,5	3	a2,b1,b2
3	Introduction to surgical orthodontics	<ul style="list-style-type: none"> <li>• Assessment</li> <li>• Indications</li> <li>• Planning for orthodontics</li> <li>• Teamwork</li> <li>• Surgical procedures</li> <li>• Stability and relapse</li> </ul>	6,7	2	a2,b1,b2
4	Midterm Exam	<ul style="list-style-type: none"> <li>• <b>Written exam</b></li> </ul>	8	1	a2,a3,b1,b2,
5	Retention and relapse	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Types</li> <li>• Duration</li> </ul>	9	1	b2,b3
6	Seminars	<ul style="list-style-type: none"> <li>• Topics will be determined by the instructor</li> </ul>	10-13	4	a1,a2,a3,b1,b2,b3
7	Review	<ul style="list-style-type: none"> <li>• Previous topics</li> </ul>	14,15	2	a1,a2,a3,b1,b2,b3
8	Final Exam	<ul style="list-style-type: none"> <li>• MCQs</li> </ul>	16	1	a1,a2,a3,b1,b2,b3
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>16</b>	



### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	<ul style="list-style-type: none"> <li>Examination and diagnosis of cases</li> <li>Orthodontic charting</li> <li>Study models</li> <li>Photographic, models, radiographic analysis</li> <li>Treatment plan</li> <li>Appliance insertion and monitoring</li> </ul>	1 <sup>st</sup> - 14 <sup>th</sup>	42	c1-c3, d1-d3
2	<b>Practical Exam</b>	15 <sup>th</sup>	3	c1-c3, d1-d3
<b>Number of Weeks /and Units Per Semester</b>		<b>15</b>	<b>45</b>	

### V. Teaching Strategies of the Course:

- Lectures
- Discussion
- Brainstorming
- Training

### VI. Assessment Methods of the Course:

- Midterm exam
- Final exam
- Practical exam
- Homework
- Oral Exam

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Seminars	10 <sup>th</sup> -14 <sup>th</sup>	10	a1-a3, b1-b3, d1-d3
<b>Total</b>			<b>10</b>	

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Midterm Exam	8 <sup>th</sup>	20	20%	a2,a3,b1,b2,d2
2	Assignments	1 <sup>st</sup> -14 <sup>th</sup>	10	10%	a1-a3, b1-b3, d1-d3
3	Practical Exam	10 <sup>th</sup> -14 <sup>th</sup>	20	20%	c1-c3, d1-d3
4	Final Exam	16 <sup>th</sup>	40	40%	a1,a2,a3,b1,b2,b3
5	Oral Exam	16 <sup>th</sup>	10	10%	a1,a2,a3,b1,b2,b3
<b>Total</b>			<b>100</b>	<b>100%</b>	

### IX. Learning Resources:

#### 1- Required Textbook(s) :

1. Proffit W., Fields H., Larson B., Sarver D., 2012,: Contemporary Orthodontics.5<sup>th</sup>ed., Mosby, USA.

#### 2- Essential References:

1. Graber L., Vanarsdall R., Vig K., Huang G. 2016. Orthodontics current principles and techniques. 6<sup>th</sup> ed. Mosby, USA.

#### 3- Electronic Materials and Web Sites etc.:

##### Websites:

1- American association of orthodontists

[www.aacd.com/central/orthodontics](http://www.aacd.com/central/orthodontics)

2- [www.orthfree.com](http://www.orthfree.com)

3- [www.orthpedic.com](http://www.orthpedic.com)

### X. Course Policies: (Based on the Uniform Students' By law (2007)

#### Class Attendance:

- 1 Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.

#### 2 Tardiness:





	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

## Faculty of Dentistry

## Department of POP

## Program of Doctor of Dental Surgery (DDS)

### Course Plan (Syllabus) of Orthodontics IV (clinical)

Course No. ( ----- )

I. Information about Faculty Member Responsible for the Course:								
Name of Faculty Member:	Prof. Dr. Ghamdan Al-Harazi		Office Hours					
Location & Telephone No.:	Sanaa 777322337							
E-mail:	drghamdan@yahoo.com		SAT	SUN	MON	TUE 1	WED	THU 1

## II. Course Identification and General Information:

1	Course Title:	Orthodontics IV (clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	--	3
4	Study Level/ Semester at which this Course is offered:	5th Level / 1st Semester			
5	Pre –Requisite (if any):	Orthodontics III (clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Dr.Ghamdan Abdullah Al-Harazi			

## III. Course Description:

This is a clinical course of orthodontics, in which the students will know the risk and benefits of orthodontic treatment, retention and relapse, management of impacted canine, and gives an introduction to surgical orthodontics. Student will present seminars about different topics determined by the instructor. The clinical part will continue to cover diagnosis, radiological and clinical examinations of selected cases, orthodontic study models, photographs and cephalometric evaluation, preparation of treatment plans with limited treatment of orthodontic problems encountered in the general practice.

#### IV. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the Course, student will be able to:

<b>A. Knowledge and Understanding:</b>	
a1	know the principles and fundamentals of clinical orthodontics
a2	understand the principles of surgical orthodontics and management of impaction of canine according to rules and ethics that regulate the role of GP in the team
a3	Determine the risks and benefits of orthodontic treatment and how to overcome its complications
<b>B. Intellectual Skills:</b>	
b1	Select orthodontic materials according to the appliance design
b2	outline a treatment plan according to patient's need attending the undergraduate clinics
b3	Design the best retention method after finishing the treatment to prevent any relapse
<b>C. Professional and Practical Skills:</b>	
c1	Apply infection control protocols during clinics
c2	Identify patient's chief complaint, appearance and attitude, obtain and interpret medical, social and dental history, conduct clinical and radiographic examination, and distinguish between normal and pathological hard and soft tissue abnormalities of the orofacial area and create a treatment plan
c3	Plan when, how and where to refer patients according to clinical assessment
<b>D. Transferable Skills:</b>	
d1	Use the latest technology for presenting and collecting data.
d2	Manage time and resources.
d3	Maintain full and accurate clinical records

#### V. Course Contents:

##### A. Theoretical Aspect:


No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Risks and benefits of	<ul style="list-style-type: none"> <li>Main risks and benefits of orthodontic treatment</li> </ul>	1,2	

## V. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	orthodontic treatment	<ul style="list-style-type: none"> <li>Prevention and treatment of complications related to orthodontic treatment</li> </ul>		
2	Management of unerupted maxillary canine	<ul style="list-style-type: none"> <li>Incidence</li> <li>Etiology</li> <li>Assessment and diagnosis</li> <li>Treatment options                             <ul style="list-style-type: none"> <li>Surgical</li> <li>Orthodontics</li> <li>others</li> </ul> </li> </ul>	3,4,5	3
3	Introduction to surgical orthodontics	<ul style="list-style-type: none"> <li>Assessment</li> <li>Indications</li> <li>Planning for orthodontics</li> <li>Teamwork</li> <li>Surgical procedures</li> <li>Stability and relapse</li> </ul>	6,7	2
4	<b>Midterm Exam</b>	<ul style="list-style-type: none"> <li><b>Written exam</b></li> </ul>	8	1
5	Retention and relapse	<ul style="list-style-type: none"> <li>Definition</li> <li>Types</li> <li>Duration</li> </ul>	9	1
6	Seminars	<ul style="list-style-type: none"> <li>Topics will be determined by the instructor</li> </ul>	10-13	4
7	Review	<ul style="list-style-type: none"> <li>Previous topics</li> </ul>	14,15	2
8	<b>Final Exam</b>	<ul style="list-style-type: none"> <li><b>MCQs</b></li> </ul>	16	1
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>16</b>

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	<ul style="list-style-type: none"> <li>Examination and diagnosis of cases</li> <li>Orthodontic charting</li> <li>Study models</li> <li>Photographic, models, radiographic analysis</li> <li>Treatment plan</li> </ul>	1 <sup>st</sup> -14 <sup>th</sup>	

<b>B. Case Studies and Practical Aspect:</b>			
No.	Tasks/ Experiments	Week Due	Contact Hours
	• Appliance insertion and monitoring		
2	Practical Exam	15 <sup>th</sup>	3
<b>Number of Weeks /and Units Per Semester</b>		<b>15</b>	<b>45</b>

<b>VI. Teaching Strategies of the Course:</b>
<ul style="list-style-type: none"> <li>- Lectures</li> <li>- Discussion</li> <li>- Brainstorming</li> <li>- Training</li> </ul>

<b>VII. Assessment Methods of the Course:</b>
<ul style="list-style-type: none"> <li>- Midterm exam</li> <li>- Final exam</li> <li>- Practical exam</li> <li>- Homework</li> <li>- Oral Exam</li> </ul>

<b>VIII. Assignments:</b>			
No.	Assignments	Week Due	Mark
1	Seminars	10th -14th	10
<b>Total</b>			<b>10</b>



### IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Midterm Exam	8 <sup>th</sup>	20	20%
2	Assignments	1 <sup>st</sup> -14 <sup>th</sup>	10	10%
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### XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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	class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
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