

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 III (clinical)
Course No. (-----)



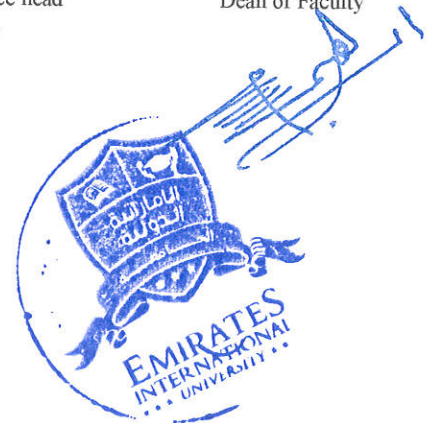
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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty



I. Course Identification and General Information:

| | | | | | |
|----|--|--------------------------------------|--------------|----------|------------|
| 1 | Course Title: | Orthodontics III (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: | 4 th Level / 2nd Semester | | | |
| 5 | Pre –Requisite (if any): | Orthodontics II (pre-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 management of different malocclusions and the role of GP in the interdisciplinary management of cleft lip and palate. Student will present seminars about different topics determined by the instructor. The clinical part will covers 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 | Recognize malocclusions etiology, examination and management | | | A2 |
| a3 | Understand the etiology of cleft lip and palate and the role of GP in the interdisciplinary team of cleft lip and palate treatment within rules and ethics of government | | | A2, A3 |
| B. Intellectual Skills: | | | | |
| 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 |
| C. Professional and Practical Skills: | | | | |
| 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 and create a treatment plan | | | C1,C4 |
| c3 | Plan when, how and where to refer patients according to clinical assessment | | | C5 |

| D. Transferable Skills: | | | |
|-------------------------|---|--|----|
| 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 | Recognize malocclusions etiology, examination and management | Lectures Brainstorming Discussion | Midterm Exam Final Exam Oral Exam |
| a3 | Understand the etiology of cleft lip and palate and the role of GP in the interdisciplinary team of cleft lip and palate treatment within rules and ethics of government | 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 Homework |
| b2 | outline a treatment plan according to patient's need attending the undergraduate clinics | Lectures Brainstorming | Midterm Exam Final Exam Oral Exam Homework |
| (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. | Exercises Brainstorming Discussion | Homework Practical Exam |
| d2 | Manage time and resources. | Exercises Brainstorming Discussion | Homework Practical Exam |
| d3 | Maintain full and accurate clinical records | Exercises 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 | Class I malocclusion | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features | 1,2,3 | 3 | |

| No. | Units/Topics List | Sub Topics List | Number of Weeks | Contact Hours | Learning Outcomes (CILOs) |
|--|--------------------------------------|---|-----------------|---------------|---------------------------|
| | | <ul style="list-style-type: none"> Assessment and diagnosis Treatment options Open bite, and cross bite treatment Stability and relapse | | | a1,a2,b1,b2 |
| 2 | Class II malocclusion division 1 & 2 | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features Assessment and diagnosis Treatment options Open bite, and cross bite treatment Stability and relapse | 4,5,6 | 3 | a1,a2,b1,b2 |
| 3 | Midterm Exam | <ul style="list-style-type: none"> Written exam | 7 | 1 | a1,a2,b1,b2 |
| 4 | Class III malocclusion | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features Assessment and diagnosis Treatment options deep bite Stability and relapse | 8,9 | 2 | a1,a2,b1,b2 |
| | Management of cleft lip and palate | <ul style="list-style-type: none"> Definition Etiology Classification Management Interdisciplinary treatment of cleft lip and palate and the role of GP in the team | 10 | 1 | a3,b2 |
| 5 | Seminars | <ul style="list-style-type: none"> Topics will be determined by the instructor | 11-14 | 2 | a1,a2,a3,b1,b2 |
| 6 | Review | <ul style="list-style-type: none"> Previous topics | 15 | 1 | a1,a2,a3,b1,b2 |
| 7 | Final Exam | MCQs | 16 | 1 | a1,a2,a3,b1,b2 |
| Number of Weeks /and Units Per Semester | | | 16 | 16 | |

| B. Case Studies and Practical Aspect: | | | | |
|--|---|-----------------------------------|---------------|---------------------------|
| No. | Tasks/ Experiments | Week Due | Contact Hours | Learning Outcomes (CILOs) |
| 1 | Introduction to orthodontic clinic | 1 st | 3 | c1-c3, d1-d3 |
| 2 | <ul style="list-style-type: none"> • Examination and diagnosis of cases • Orthodontic charting • Study models • Photographic, models, radiographic analysis • Treatment plan • Appliance insertion and monitoring | 2 nd -14 th | 23 | c1-c3, d1-d3 |
| | Practical Exam | 15 th | 3 | c1-c3, d1-d3 |
| Number of Weeks /and Units Per Semester | | 15 | 45 | |

V. Teaching Strategies of the Course:

- Lectures
- Discussion
- Brainstorming
- Training

VI. Assessment Methods of the Course:

- Midterm exam
- Final exam
- Practical exam
- Assignment
- Oral Exam

| VII. Assignments: | | | | |
|-------------------|---|------------------------------------|-----------|-------------------------|
| No. | Assignments | Week Due | Mark | Aligned CILOs (symbols) |
| 1 | Seminars | 11 th -14 th | 10 | b1-b2 d1-d3 |
| 2 | Clinical Assignments <ul style="list-style-type: none"> • Examination and diagnosis of cases • Orthodontic charting • Study models • Photographic, models, radiographic analysis • Treatment plan • Appliance insertion and monitoring | 1 st -14 th | | c1-c3, d1-d3 |
| Total | | | 10 | |

| 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 | Assignments | 1 st - 14 th | 10 | 10% | b1-b2, c1-c3, d1-d3 |
| 2 | Midterm Exam | 7 th | 20 | 20% | a1,a2,a3,b1,b2 |
| 3 | Practical Exam | 15 th | 20 | 20% | c1-c3, d1-d3 |
| 4 | Final Exam | 16 th | 40 | 40% | a1,a2,a3,b1,b2 |
| 5 | Oral Exam | 16 th | 10 | 10% | a1,a2,a3,b1,b2 |
| Total | | | 100 | 100% | |

| IX. Learning Resources: | |
|---|--|
| 1- Required Textbook(s): | |
| 1. Proffit W., Fields H., Larson B., Sarver D., 2012: Contemporary Orthodontics, 5 th ed., Mosby, USA. | |
| 2- Essential References: | |
| 1. Graber L., Vanarsdall R., Vig K., Huang G. 2016: Orthodontics current principles and | |

techniques. 6th ed., Mosby, USA.

3- Electronic Materials and Web Sites etc.:

Websites:

1- American association of orthodontists

www.aacd.com/central/orthodontics

2- www.orthfree.com

3- 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. |
| | Tardiness: |
| 2 | A student will be considered late if he/she is not in class after 10 minutes of the start time of class. |
| | Exam Attendance/Punctuality: |
| 3 | 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. |
| | Assignments & Projects: |
| 4 | Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same. |
| | Cheating: |
| 5 | 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. |
| | Forgery and Impersonation: |
| 6 | 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. |
| | Other policies: |
| 7 | 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 III (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 1 THU 1 |



II. Course Identification and General Information:

| | | | | | |
|----|--|--------------------------------|--------------|----------|------------|
| 1 | Course Title: | Orthodontics III (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: | 4th Level / 2nd Semester | | | |
| 5 | Pre –Requisite (if any): | Orthodontics II (pre-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 management of different malocclusions and the role of GP in the interdisciplinary management of cleft lip and palate. Student will present seminars about different topics determined by the instructor. The clinical part will covers 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:

| | |
|----|---|
| | A. Knowledge and Understanding: |
| a1 | know the principles and fundamentals of clinical orthodontics |
| a2 | Recognize malocclusions etiology, examination and management |
| a3 | Understand the etiology of cleft lip and palate and the role of GP in the interdisciplinary team of cleft lip and palate treatment within rules and ethics of government |
| | B. Intellectual Skills: |
| b1 | Select orthodontic materials according to the appliance design |
| b2 | outline a treatment plan according to patient's need attending the undergraduate clinics |
| | C. Professional and Practical Skills: |
| 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 |
| | D. Transferable Skills: |
| 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 | Class I malocclusion | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features Assessment and diagnosis Treatment options Open bite, and cross bite treatment | 1,2,3 | |

| V. Course Contents: | | | | |
|--|--------------------------------------|---|------------------------|----------------------|
| A. Theoretical Aspect: | | | | |
| No. | Units/Topics List | Sub Topics List | Number of Weeks | Contact Hours |
| | | <ul style="list-style-type: none"> Stability and relapse | | |
| 2 | Class II malocclusion division 1 & 2 | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features Assessment and diagnosis Treatment options Open bite, and cross bite treatment Stability and relapse | 4,5,6 | 3 |
| 3 | Midterm Exam | <ul style="list-style-type: none"> Written exam | 7 | 1 |
| 4 | Class III malocclusion | <ul style="list-style-type: none"> Etiology Skeletal, occlusal and soft tissues features Assessment and diagnosis Treatment options deep bite Stability and relapse | 8,9 | 2 |
| | Management of cleft lip and palate | <ul style="list-style-type: none"> Definition Etiology Classification Management Interdisciplinary treatment of cleft lip and palate and the role of GP in the team | 10 | 1 |
| 5 | Seminars | <ul style="list-style-type: none"> Topics will be determined by the instructor | 11-14 | 2 |
| 6 | Review | <ul style="list-style-type: none"> Previous topics | 15 | 1 |
| 7 | Final Exam | MCQs | 16 | 1 |
| Number of Weeks /and Units Per Semester | | | 16 | 16 |



| B. Case Studies and Practical Aspect: | | | |
|--|--|-----------------------------------|---------------|
| No. | Tasks/ Experiments | Week Due | Contact Hours |
| 1 | Introduction to orthodontic clinic | 1 st | 3 |
| 2 | <ul style="list-style-type: none">• Examination and diagnosis of cases• Orthodontic charting• Study models• Photographic, models, radiographic analysis• Treatment plan• Appliance insertion and monitoring | 2 nd -14 th | 23 |
| | Practical Exam | 15 th | 3 |
| Number of Weeks /and Units Per Semester | | 15 | 45 |

VI. Teaching Strategies of the Course:

- Lectures
- Discussion
- Brainstorming
- Training

VII. Assessment Methods of the Course:

- Midterm exam
- Final exam
- Practical exam
- Assignment
- Oral Exam



| VIII. Assignments: | | | |
|---------------------------|--|------------|-----------|
| No. | Assignments | Week Due | Mark |
| 1 | Seminars | 11th -14th | 10 |
| 2 | Clinical Assignments Examination and diagnosis of cases <ul style="list-style-type: none"> • Orthodontic charting • Study models • Photographic, models, radiographic analysis • Treatment plan • Appliance insertion and monitoring | 1st -14th | |
| Total | | | 10 |

| IX. Schedule of Assessment Tasks for Students During the Semester: | | | | |
|---|-------------------|-----------------------------------|------------|--------------------------------|
| No. | Assessment Method | Week Due | Mark | Proportion of Final Assessment |
| 1 | Assignments | 1 st -14 th | 10 | 10% |
| 2 | Midterm Exam | 7 th | 20 | 20% |
| 3 | Practical Exam | 15 th | 20 | 20% |
| 4 | Final Exam | 16 th | 40 | 40% |
| 5 | Oral Exam | 16 th | 10 | 10% |
| Total | | | 100 | 100% |

| X. Learning Resources: | |
|--|---|
| 1- Required Textbook(s): | Proffit W., Fields H., Larson B., Sarver D., 2012: Contemporary Orthodontics, 5th ed., Mosby, USA. |
| 2- Essential References: | Graber L., Vanarsdall R., Vig K., Huang G. 2016: Orthodontics current principles and techniques. 6th ed., Mosby, USA. |
| 3- Electronic Materials and Web Sites etc.: | |

Websites:

- 1- American association of orthodontists
www.aacd.com/central/orthodontics
- 2- www.orthfree.com
- 3- www.orthpedic.com

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

| | |
|---|--|
| 1 | Class Attendance: 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 | Exam Attendance/Punctuality: 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 | Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same. |
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| 7 | Other policies: 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. |