

## Faculty of Oral & Dental Medicine

### Orthodontics

#### Information :

**Course Code :** ORTH 412

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Faculty of Oral & Dental Medicine

#### Instructor Information :

Title	Name	Office hours
Professor	ESSAM MOHAMED NASSEF SELIM	0
Assistant Lecturer	Reem Mohamed Hazem Hassan Hassan Aly El Shazly	
Teaching Assistant	Shahd Osama Hegazy Mohamed Nouraldein Elmesaddi	

#### Area Of Study :

- 1)- To enable the students to diagnose orthodontic problems and methods of management.
- 2)- To understand appropriate time of intervention in potential orthodontic cases and to reach students preventive and interceptive measures in developing malocclusions and improve problem solving skills
- 3)- to understand the possible causes of orthodontic relapse and methods of retention .
- 4)- to understand the possible iatrogenic effects of orthodontic treatment.

#### Course outcomes :

##### **a.Knowledge and Understanding: :**

1 -	Discuss the concept of extraction in orthodontics
2 -	Discuss the biological principles of tooth movement
3 -	Describe the basic biomechanical principles of orthodontics tooth movement
4 -	Recognize the behavior of orthodontics wires
5 -	Describe the needed measures for the prevention of malocclusion in the primary and mixed dentition stage
6 -	State the appropriate management of abnormalities affecting the occlusion in the primary and mixed dentition
7 -	Recognize the basic principles of orthodontic appliance design
8 -	Recognize the problem of relapse and the procedures taken to maintain the position of teeth achieved by orthodontic treatment
9 -	Recognize the sequelae of untreated malocclusion and its influence on oral health
10 -	Recognize the iatrogenic effect in orthodontics

##### **b.Intellectual Skills: :**

1 -	Select appropriate time and methods of intervention in potential orthodontic cases.
2 -	distinguish the underlying dento-skeletal abnormalities by analyzing cephalometric radiographs

##### **c.Professional and Practical Skills: :**

1 -	Propose diagnosis , prevention and treatment planning in the mixed dentition stage
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2 -	Design simple removable appliances to interfere with a developing malocclusion
3 -	Plan appliances that interfere with abnormal oral habits that affect normal development of occlusion .
4 -	Recommend appliances to correct cross bite situations in the primary and mixed dentition .

**d.General and Transferable Skills: :**

1 -	Communicate with other healthcare professionals both verbally and in globally accepted written formats .
2 -	Recognize moral and ethical responsibilities involved in the provision of care to individual patients and to community

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Tissue reaction and biomechanical principles of tooth movement	1	1	
Orthodontic appliance design	7	3	4
Anchorage	1	1	2
Preventive Orthodontics	3	1	2
Interceptive Orthodontics	3	1	2
Mixed dentition management	3	1	2
Orthodontic retention and relapse	1	1	
Iatrogenic effects in orthodontics	3	1	2
Revision	3	1	2

**Teaching And Learning Methodologies :**

Lectures
small group sessions
Practical demonstrations

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
ClassWork(Attendance, Requirement, Practical quiz)	20.00	7	Practical Skills & overall participation
Final Written Examination	25.00	14	knowledge and understanding
Midterm Examination	20.00	9	knowledge and understanding
Oral Examination	10.00	14	knowledge and understanding (and assessment general and professional skills )
Practical Examination	15.00	12	ability of data collection , analysis and formulation of a treatment plan
Theoretical Quiz Examination	10.00	5	knowledge and understanding

**Course Notes :**

Recorded lectures : available for students on moodle
Presentations used during teaching on the moodle

**Recommended books :**

"Contemporary orthodontics" by William R. Proffit, Henry W. Fields Jr., 5th edition; April (2012).