

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	
Professor	Hala Munir Abdelmajeed El Sayed	
Professor	Hala Munir Abdelmajeed El Sayed	
Associate Professor	Mostafa Mohamed Ahmed El Dawlatly	
Lecturer	Mohamed Essam Salah Eldin Mohamed Hassan Amer	
Lecturer	SAMEH MOHAMED TALAAT TAHA MOHAMED	0
Assistant Lecturer	Reem Mohamed Hazem Hassan Hassan Aly El Shazly	
Teaching Assistant	Rodayna Ahmed Mohamed Salah Eldin Elbadawy	
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.

Description :

Tissue reaction and biomechanical principles of tooth movement, Orthodontic appliance design, Anchorage, Preventive Orthodontics, Interceptive Orthodontics, Mixed dentition management, Orthodontic retention and relapse, Iatrogenic effects in orthodontics

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
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).