

Faculty of Oral & Dental Medicine

Orthodontics

Information :

Course Code : ORTH 412

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Faculty of Oral & Dental Medicine

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
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).