

## Faculty of Oral & Dental Medicine

### Orthodontics

#### Information :

**Course Code :** ORTH 411

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

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

#### Instructor Information :

| Title              | Name                                            | Office hours |
|--------------------|-------------------------------------------------|--------------|
| Professor          | Hala Munir Abdelmajeed El Sayed                 | 2            |
| Assistant Lecturer | Hosam Abdullah Mohammed Zaazaa                  |              |
| Assistant Lecturer | Reem Mohamed Hazem Hassan Hassan Aly El Shazly  |              |
| Teaching Assistant | Shahd Osama Hegazy Mohamed Nouraldein Elmesaddi |              |
| Teaching Assistant | Abdelrahman Mostafa Mahmoud Eldesouky Elbosaily |              |
| Teaching Assistant | Mariam Ayman Ibrahim Ahmed Tagen                |              |

#### Area Of Study :

- 1)-To educate the students about the basic features of facial growth and development
- 2)- To familiarize the student with principles of occlusion.
- 3)- to familiarize the students with malocclusion and etiological factors associated with it.  
To enable the students to diagnose orthodontic problems.
- 4)- To enable development and application of appropriate professional attitudes and communication.

#### Course outcomes :

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

|     |                                                                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| 1 - | Recognize the basis of normal human facial growth and development from birth until completion of growth                               |
| 2 - | Describe the stages of normal development of occlusion during infancy , primary dentition , mixed dentition , and permanent dentition |
| 3 - | Recognize the phases of eruption and their effect on development of malocclusion                                                      |
| 4 - | Define the terminology of mal-posed teeth and different types of classification of malocclusion                                       |
| 5 - | Identify the etiological factors of malocclusion and its impact on the developing occlusion                                           |
| 6 - | Describe extra-oral and intra-oral examination from an orthodontic perspective                                                        |

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

|     |                                                                                              |
|-----|----------------------------------------------------------------------------------------------|
| 1 - | distinguish between normal occlusion and abnormal deviations that necessitates treatment     |
| 2 - | differentiate between different causes of malocclusion and prophylactic measures against it. |

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

|     |                                                                     |
|-----|---------------------------------------------------------------------|
| 1 - | Record accurately patient's chief complaint                         |
| 2 - | Document a complete focused medical and dental history for patients |

|     |                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------|
| 3 - | Diagnose underlying dento-skeletal abnormalities                                                             |
| 4 - | Interpret acquired data in term of their diagnostic significances                                            |
| 5 - | Prescribe diagnostic aids appropriate for every individual case                                              |
| 6 - | Appraise Orofacial findings of the orthodontic patient                                                       |
| 7 - | Assess extra-oral and intraoral findings of the patient including head and neck , oral hard and soft tissues |

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

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

**Course Topic And Contents :**

| Topic                               | No. of hours | Lecture | Tutorial / Practical |
|-------------------------------------|--------------|---------|----------------------|
| Craniofacial Growth and development | 3            | 3       |                      |
| Development of normal occlusion     | 3            | 1       | 2                    |
| Description of normal occlusion     | 3            | 1       | 2                    |
| Classification of malocclusion      | 5            | 1       | 4                    |
| Terminology of malocclusion         | 3            | 1       | 2                    |
| Etiology of malocclusion            | 4            | 2       | 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                                                                   |
|---------------------------------------------------------|-------------------|---------|-------------------------------------------------------------------------------|
| Class work (Attendance, Requirment, Practical Quiz)     | 20.00             | 7       | Practical Skills & overall participation                                      |
| Final Written Examination                               | 25.00             | 14      | knowledge and understanding                                                   |
| Mid Term Examination<br>formulation of a treatment plan | 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).