

## Faculty of Oral & Dental Medicine

### Human Dentition

#### Information :

**Course Code :** DHST 112

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

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

#### Instructor Information :

| Title               | Name                                 | Office hours |
|---------------------|--------------------------------------|--------------|
| Professor           | Mona Fathy Abdel Maksoud Eldeeb      | 0            |
| Associate Professor | RANEEM FAROUK MOHAMED ADEEB OBEID    | 0            |
| Lecturer            | Nehad Mostafa Abd El Monsif Mostafa  | 1            |
| Teaching Assistant  | Merna Essam Abdelmalek Youssef       |              |
| Teaching Assistant  | Areeg Fekry Mohamed Nabih Elgharbawy |              |
| Teaching Assistant  | Esraa Belal Mohamed Hamed Ramadan    |              |

#### Area Of Study :

ÅTo promote advanced knowledge about dental anatomy and physiology.

ÅTo provide expanded knowledge about human dentition (permanent molars and deciduous dentition, physiologic significance of tooth form and different types of occlusion).

ÅTo serve as a basis for understanding the clinical courses such as Pedodontics, Orthodontics, Operative dentistry, Endodontics as well as prosthodontics and crown and bridge.

#### Description :

1. Surface anatomy of deciduous teeth
2. Surface anatomy of permanent molars
3. Condition of teeth at different ages
4. Mandible at different ages
5. Physiology significance of tooth form in
6. Protecting the periodontium
7. Arrangement of teeth in curves
8. Normal occlusion

#### Course outcomes :

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

|     |                                             |
|-----|---------------------------------------------|
| 1 - | Identify both deciduous and permanent teeth |
| 2 - | Memorize the chronology                     |

|     |                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|
| 3 - | Describe the anatomical changes induced in the mandible by age                                                                       |
| 4 - | State the significance of physiologic tooth form in protecting the periodontium                                                      |
| 5 - | Describe the different curves to which the arrangement of teeth conforms.                                                            |
| 6 - | Describe the relation of maxillary and mandibular teeth in normal centric occlusion as well as during different mandibular movements |

**b. Intellectual Skills: :**

|     |                                                                                       |
|-----|---------------------------------------------------------------------------------------|
| 1 - | Differentiate between the deciduous and permanent human teeth.                        |
| 2 - | Predict the approximate age of a human being according to the condition of his teeth  |
| 3 - | Distinguish any abnormalities in human teeth as well as in their occluding relations. |

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

|     |                                                                                                         |
|-----|---------------------------------------------------------------------------------------------------------|
| 1 - | Design the morphology of different types of human teeth.                                                |
| 2 - | Create the normal shape and size of different permanent ((premolars and molars) human teeth by carving. |

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

|     |                                |
|-----|--------------------------------|
| 1 - | Manage time effectively.       |
| 2 - | Appreciate long life learning. |

**Course Topic And Contents :**

| Topic                                                                                                                        | No. of hours | Lecture | Tutorial / Practical |
|------------------------------------------------------------------------------------------------------------------------------|--------------|---------|----------------------|
| Upper first molar<br>Carving<br>Lower 4                                                                                      | 5            | 1       | 4                    |
| Upper second and third molars<br>Carving<br>Lower 4                                                                          | 5            | 1       | 4                    |
| Lower first molar<br>Evaluation Lower 4 + Carving<br>Lower 5                                                                 | 5            | 1       | 4                    |
| Lower second and third molars<br>Carving<br>Lower 5                                                                          | 5            | 1       | 4                    |
| Deciduous teeth (anterior)<br>Evaluation Lower 5 + Carving<br>upper 6                                                        | 5            | 1       | 4                    |
| Deciduous teeth (posterior)<br>1st Practical Quiz + Carving<br>upper 6                                                       | 5            | 1       | 4                    |
| Physiological significance of tooth form<br>Carving upper 6 & identification of natural upper molars (permanent & deciduous) | 5            | 1       | 4                    |
| Compensating curvatures<br>Evaluation of Upper 6 + Applied Dental Anatomy + Carving<br>lower 6                               | 5            | 1       | 4                    |
| Occlusion of anterior teeth<br>Carving lower 6                                                                               | 5            | 1       | 4                    |
| Occlusion of anterior teeth<br>Carving lower 6                                                                               | 5            | 1       | 4                    |

### **Course Topic And Contents :**

| <b>Topic</b>                                                                                                   | <b>No. of hours</b> | <b>Lecture</b> | <b>Tutorial / Practical</b> |
|----------------------------------------------------------------------------------------------------------------|---------------------|----------------|-----------------------------|
| Teeth at Different ages<br>Evaluation of Lower 6 + Teeth at Different ages& identification of natural teeth    | 5                   | 1              | 4                           |
| Mandible at different ages<br>2nd Practical Quiz + Mandible at different ages& identification of natural teeth | 5                   | 1              | 4                           |

### **Teaching And Learning Methodologies :**

Lectures using power point.

Lectures using videos.

Lectures with discussions.

Practical and small group sessions: a. Each practical session's preceded by slide tutorial demonstration, carving videos, drawing of different teeth and class discussions. b. Demonstration of tooth carving in small groups.

Small discussion teaching.

### **Course Assessment :**

| <b>Methods of assessment</b> | <b>Relative weight %</b> | <b>Week No</b> | <b>Assess What</b> |
|------------------------------|--------------------------|----------------|--------------------|
| Final practical Examination  | 15.00                    |                |                    |
| Final term Examination       | 25.00                    |                |                    |
| Oral Examination             | 10.00                    |                |                    |
| Semester practical work      | 25.00                    |                |                    |
| Semester written Examination | 25.00                    |                |                    |

### **Course Notes :**

ÅAll lectures are available for students as presentations on the moodle.

ÅHandouts for certain topics uploaded on moodle.

### **Recommended books :**

ÅTextbooks: Mary Bath-Balogh, Margaret J. Fehrenbach Dental Embryology Histology and Anatomy 4th Edition, 2015

### **Web Sites :**

PubMed

Science Direct