



**Islamic University in Najaf - Faculty Of Dentistry
Quality Assurance and Academic Accreditation unit**

Course Description

Department of oral biology

2024

Course Description Form

1. Course Name:	
Dental anatomy physiology and occlusion ,	
2. Course Code:	
3. Semester / Year:	
First year	
4. Description Preparation Date:	
16-4-2024	
5. Available Attendance Forms:	
Available	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical 2 laboratory 2	
7. Course administrator's name (mention all, if more than one	
Name: Magdy Alabasiry Email:	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> To know the dental anatomy ,morphology of permanent and deciduous teeth To know the morphological differences between primary and permanent teeth To know the age changing occurring in the mandible(mandible at different ages) To know the teeth at different ages either deciduous or permanent teeth To understanding the significances of the geometric outline and arrangement of the teeth To understand the factors protecting the Periodontium either direct factors or indirect factors which protecting the Periodontium
9. Teaching and Learning Strategies	

Strategy	<p>Lecture-Based teaching: Blackboard illustrations Power point presentation on Data show projector Teacher-student interaction or Question-answer In-lecture Quiz</p> <p>Laboratory based teaching; Demonstration for anatomical landmarks of different teeth including crown elevations and depression on model teeth and in natural teeth Demonstration and carving different teeth on wax blocks Monitoring student (Hands-on) performance under guided supervision Multimedia presentation and explanation for the importance of centric occlusion relationships for different dental specialities</p>
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2	<ul style="list-style-type: none"> To know the structure of oral cavity either soft or hard tissues To know the macro anatomy of the teeth and its supporting tissues 	Introduction	Lecture	
2.3.	4	<ul style="list-style-type: none"> To know the followings The classes of teeth anterior teeth and posterior teeth classification of human dentition structure of Periodontium Division of the crown and roots into third The line and point angles Nomenclature systems of human dentition Anatomical landmarks of the crown(crown elevations and 	Introduction 2		

4.5.6	6	<p>To identify the followings</p> <ul style="list-style-type: none"> • The Chronology and description of the following maxillary permanent anterior teeth <p>Maxillary central incisor Maxillary lateral incisor Maxillary permanent canine</p> <ul style="list-style-type: none"> • Pulp cavities of permanent maxillary anterior teeth 	Morphology of permanent maxillary anterior teeth		
7.8	4	<p>To identify the followings</p> <ul style="list-style-type: none"> • The Chronology and description of the following mandibular permanent anterior teeth <p>Mandibular central incisor Mandibular lateral incisor Mandibular permanent canine</p> <ul style="list-style-type: none"> • Pulp cavities of permanent mandibular anterior teeth • 	Morphology of permanent mandibular anterior teeth		
9.10.1 1	6	<p>To identify the followings</p> <ul style="list-style-type: none"> • The Chronology and description of the maxillary premolars <p>Maxillary first premolar Maxillary second premolar</p> <ul style="list-style-type: none"> • Pulp cavities of maxillary premolars 	Morphology and chronology of maxillary premolars		
12.13	4	<p>To identify the followings</p> <ul style="list-style-type: none"> • The Chronology and description of the mandibular premolars <p>Mandibular first premolar Mandibular second premolar</p> <ul style="list-style-type: none"> • Pulp cavities of mandibular premolars 	Morphology and chronology of mandibular premolars		

14.15	4	<ul style="list-style-type: none"> To identify the followings The Chronology and description of the maxillary molars <p>Maxillary permanent first molar Maxillary permanent second molar Maxillary permanent third molar</p> <ul style="list-style-type: none"> Pulp cavities of maxillary 	Morphology and chronology of maxillary permanent molars		
16.17	4	<ul style="list-style-type: none"> To identify the followings The Chronology and description of the mandibular molars <p>Mandibular permanent first molar Mandibular permanent second molar Mandibular permanent third</p>	Morphology and chronology of mandibular permanent molars		
18	2	<ul style="list-style-type: none"> To identify the followings <p>The morphological differences between primary and permanent</p>	Morphological differences between permanent and deciduous teeth		
19	2	<ul style="list-style-type: none"> To identify the followings Morphology and chronology of maxillary and mandibular central and lateral incisors Morphology and chronology of 	Morphology and description of deciduous anterior teeth		
20	2	<ul style="list-style-type: none"> To identify the followings Morphology and chronology of maxillary and mandibular first deciduous molars <p>Morphology and chronology of maxillary and mandibular</p>	Morphology and description of deciduous posterior teeth		

21	2	<p>To identify the followings</p> <p>Anatomy of the mandible</p> <p>Demonstration of different surfaces of the mandible</p> <p>Mandible at birth</p> <p>Mandible at 3 years</p> <p>Mandible at 6 years</p> <p>Mandible at adult period</p> <p>Mandible at old ages</p> <p>At all these periods we demonstrates level of condyle and coronoid process mandibular angle</p>	M a n d i b l e a t different ages		
22	2	<p>To identify the followings</p> <p>Teeth at different ages</p> <p>Sequence of eruption of deciduous teeth.</p> <p>Shedding and shedding date</p> <p>Teeth at birth</p> <p>Teeth at 3 years</p> <p>Teeth at 6 years</p> <ul style="list-style-type: none"> • Teeth at 10 years • Teeth at 12 years 	T E E T H A T DIFFERENT AGES		
23	2	<p>To identify the followings</p> <p>geometric outline of the facial and lingual surfaces of the crown and its significances</p> <p>geometric outline of the proximal surface of anterior teeth and its significances</p> <p>geometric outline of the proximal surface of maxillary posterior teeth and its significances</p> <p>geometric outline of the proximal surface of</p>	geometric outline of the crown		

24	2	<p>To identify the followings The direct factors protecting the Periodontium and its significances</p> <ol style="list-style-type: none"> 1- Proximal contact relation 2- Interproximal spaces 3- Embrasures or spillways 4- Facial and lingual contours <i>of</i> the crown 5- Curvature of cervical 	Physiologic Form of the Teeth and The Periodontium		
25	2	<p>To identify the followings</p> <ol style="list-style-type: none"> 1- <i>Crown form</i>: which includes: <ol style="list-style-type: none"> A. Proximal maximal contour. B. Facial and lingual maximal contour). C. Crown outline 2- <i>Roof form</i> <ol style="list-style-type: none"> A. Length, number and distribution. B. Root outline. 3- <i>Angulation of crown and root</i>: <ol style="list-style-type: none"> A. Lingual angulations of the crown of lower posterior 	Indirect factors protecting the Periodontium		

26.27.28	6	To identify the followings Dental arch form. 1. Compensating curvature of the dental arches. 2. Compensating curvature of individual teeth. 3. Angulations of individual teeth in relation to various planes. 4. Functional form of the teeth at their incisal and occlusal thirds. 5. Facial relations of each tooth to its antagonists in centric occlusion. 6. Occlusal contact and intercusp relation of all teeth of one arch with those in the opposite arch in centric occlusion.	ARRANGEMENT A N D OCCLUSION OF TEETH		
29.30	4	To identify the followings Contact of teeth in opposing dental arches: Main positions of the mandible in occlusion with the maxilla	OCCLUSION		
		Classification of Occlusion (Angle's Classification) The Contact Relation of the Teeth in Centric Occlusion			

11.Course Evaluation

First semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 4 (laboratory steps evaluation) 5 (1st semester final lab.)

Second semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz) 4 (laboratory steps evaluation) 5 (1st semester final lab.)

Final 60%

12.Learning and Teaching Resources

Required textbooks

▪ Weelers dental anatomy ,physiology and occlusion

Main references (sources)	<ul style="list-style-type: none"> ■ Woelfel's Dental Anatomy 8th Edition ■
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> ■ Weelers dental anatomy ,physiology and occlusion ninth edition
Electronic References, Websites	<ul style="list-style-type: none"> ■ Illustrated Dental Embryology, Histology, & Anatomy, 5th Edition