

Republic of Yemen
Ministry of Higher Education & Scientific Research

Emirates International University



Faculty of Dentistry

Department of Conservative Dentistry

Doctor of Dental Surgery (DDS)

Course Specification of

Dental Anatomy II

Course No. ()



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Review committee

Head of the Department

Quality Assurance head

Dean of Faculty



I. Course Identification and General Information:

1	Course Title:	Dental Anatomy II			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	1 st Level / 2 ^{ed} Semester			
5	Pre –Requisite (if any):	Dental Morphology I			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assoc. Prof. Dr. Ibrahim Z. Al-Shami			

II. Course Description:

Dental anatomy II is a continuous course with the former that focuses on theoretical knowledge of the anatomy of teeth and related structures and carving of posterior teeth from wax blocks. The course comprises lectures and laboratory sessions. It deals with the dental anatomy and morphology of human dentition, (permanent and deciduous) includes the dental arches relationship, teeth alignment, occlusion and the characteristics that maintain anatomical form which promotes health of the dental supporting structures. Upon completion of lectures and laboratory, students will be able to carve posterior teeth with proper anatomy, occlusion and contour.

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program	
A. Knowledge and Understanding:		I, A or E	
a1	Define the primary, mixed and permanent dentitions.		A1
a2	Distinguish the morphological characteristics of different kinds of teeth.		A2
a3	Understand eruption schedule of deciduous and permanent teeth.		A1
B. Intellectual Skills:			
b1	Explain the differences among primary, permanent, and mixed dentitions and describe the general and specific features of each.		B1
b2	Explain the teeth alignments, articulation and the self-protective feature of the dentition.		B4
b3	Interpret the relationship between tooth contours and periodontal health		B1
C. Professional and Practical Skills:			
c1	Perform manual wax carving for all permanent maxillary molars and mandibular premolar and molars		C7
c2	Replace missing tooth surfaces with wax to normal anatomical and morphological features		C2
c3	Draw to scale two dimensions of posterior teeth following the lectures outline, using the table of measurements provided.		C7
D. Transferable Skills:			
d1	Develop a dental vocabulary and the		D3

	ability to use it in communication with dental assistants and colleagues easily.			
d2	Manage time during lab work		D4	

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Define the primary, mixed and permanent dentitions.	Lectures Demonstrations Discussion	Quizzes Midterm Exam Final Exam
a2	Distinguish the morphological characteristics of different kinds of teeth.	Lectures Demonstrations Discussion	Quizzes Midterm Exam Final Exam
a3	Understand eruption schedule of deciduous and permanent teeth.	Lectures Demonstrations Discussion	Quizzes Midterm Exam Final Exam

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Explain the differences among primary, permanent, and mixed dentitions and describe the general and specific features of each.	Lectures Lab Sessions Demonstrations Discussion	Quizzes Midterm Exam Final Exam Practical Exam Semester work
b2	Explain the teeth alignments, articulation and the self-protective feature of the dentition.	Lectures Lab Sessions Demonstrations Discussion	Quizzes Midterm Exam Final Exam Practical Exam Semester work
b3	Interpret the relationship between tooth contours and periodontal health	Lectures Lab Sessions Demonstrations Discussion	Quizzes Midterm Exam Final Exam Practical Exam Semester work

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Perform manual wax carving for all permanent maxillary molars and mandibular premolar and molars	Demonstration Lab Sessions	Semester Work practical Exam
c2	Replace missing tooth surfaces with wax to normal anatomical and morphological features	Demonstration Lab Sessions	Semester Work practical examination
C3	Draw to scale two dimensions of all teeth following the lectures outline, using the table of measurements provided.	Lectures Demonstration Lab Sessions	Semester Work practical Exam
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Develop a dental vocabulary and the ability to use it in communication with dental assistants and colleagues easily.	Discussion	Direct Observation Practical Exam Semester Work
d2	Manage time during lab work	Discussions Demonstrations	Direct Observation Practical Exam Semester Work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	The Permanent mandibular 1 st premolars.	– Descriptive Anatomy of mandibular 1 st premolars.	1	2	a1, a2, b1, b2,
2	The Permanent	– Descriptive Anatomy of	1		a1, a2,

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	mandibular 2 ^{ed} premolars.	mandibular 2 ^{ed} premolars.			b1, b2
3	The Permanent maxillary molars	- Descriptive Anatomy of maxillary 1 st , 2 nd and 3 rd molars	3	6	a1, a2, b1, b2
4	The Permanent mandibular molars	- Descriptive Anatomy of mandibular 1 st , 2 nd and 3 rd molars	2	6	a1, a2, b1, b2
5	Midterm Exam	- MCQs and essay questions	1	2	a1, a2, b1, b2
6	The deciduous teeth	- Primary anterior teeth - Primary posterior teeth - characteristics - Geometric outlines - Difference between deciduous and permanent dentition	3	6	a1, a2, a3, b1,
7	General consideration in the Physiologic form of the teeth and periodontium	- dental arches relationship - tooth contours and periodontal health	1	2	a1, b1, b2, b3
8	Occlusion of the primary and permanent teeth	- teeth alignment and occlusion. - occlusion of the primary and permanent teeth	2	4	a1, b1, b2, b3
9	Review	- All previews topics	1	2	a1, a2, a3, b1, b2, b3
10	Final Exam	- MCQs and essay questions	1	2	a1, a2, a3, b1, b2, b3
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CIOs)
1	Revision on upper premolars	1 st - 2 nd	4	c1, c2, c3, d1, d2
2	Carving of mandibular first premolar	3 th - 4 th	4	c1, c2, c3, d1, d2
3	Carving of mandibular second premolar	5 th - 6 th	4	c1, c2, c3, d1, d2
4	Carving of maxillary first molar	7 th - 8 th	4	c1, c2, c3, d1, d2
5	Carving of maxillary second molar	9 th - 10 th	4	c1, c2, c3, d1, d2
6	Carving mandibular first molar	11 th -12 th	4	c1, c2, c3, d1, d2
7	Carving of mandibular second molar	13 th - 14 th	4	c1, c2, c3, d1, d2
8	Practical Exam	15 th	2	c1, c2, c3, d1, d2
Number of Weeks /and Units Per Semester		15	30	

V. Teaching Strategies of the Course:

Lectures
Lab Sessions
Demonstrations
Discussions

VI. Assessment Methods of the Course:

Quizzes
Midterm Exam
Final Exam
Practical Exam
Semester Work
Direct Observation

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Semester work - Wax carving technique for premolars and posterior teeth (laboratory work)	1- 14	10	c1, c2, c3, d1, d2
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	1- 14	10	10%	c1, c2, c3, d1, d2
2	Quizzes 1 and 2	4-12	10	10 %	a1, a2, a3, b1, b2
3	Midterm Exam	8	20	20 %	a1, a2, b1, b2
4	Practical Exam	15	20	20 %	c1, c2, c3, d1, d2
5	Final Exam	16	40	40 %	a1, a2, a3, b1, b2, b3
Total			100	100%	

IX. Learning Resources:

1- Required Textbook(s) :

- 1- Ash & Nelson, 2010: Wheeler's Dental Anatomy Physiology and Occlusion, 9th edition, Saunders
- 2- Kumar, 2004: Textbook of Dental Anatomy and Tooth Morphology, Jaypee Brothers Publishers

2- Essential References:

- 1- Heather J. H. Edgar. Dental Morphology for Anthropology, An Illustrated Manual, 1st Edition. Published by Routledge
- 2- Margaret J., Fehrenbach, 2007: Dental Anatomy Coloring Book.
- 3- Lippincott Williams & Wilkins) by Rickne C. Scheid. Woelfel's, 2007: Dental Anatomy: Its Relevance to Dentistry.

3- Electronic Materials and Web Sites etc.:

<p>Websites:</p> <p>1- Dental anatomy by British Dental Association http://www.3dmouth.org/4/4_intro.cfm</p> <p>2- Pub med.</p> <p>3- Sciencedirect</p>

X. Course Policies: (Based on the Uniform Students' By law (2007))	
1	<p>Class Attendance:</p> <p>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p>Tardiness:</p> <p>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p>Exam Attendance/Punctuality:</p> <p>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p>Assignments & Projects:</p> <p>Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p>Cheating:</p> <p>Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p>Forgery and Impersonation:</p> <p>Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
7	<p>Other policies:</p> <p>The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.</p>

Faculty of Dentistry

Department of Conservative Dentistry

Program of Doctor of Dental Surgery (DDS)

Course Plan (Syllabus) of

Dental Anatomy II

Course No. (-----)

I. Information about Faculty Member Responsible for the Course:									
Name of Faculty Member:	Assoc. Prof. Dr. Ibrahim Z. Al-Shami			Office Hours					
Location & Telephone No.:									
E-mail:				SAT	SUN	MON	TUE	WED	THU

II. Course Identification and General Information:

1	Course Title:	Dental Anatomy II			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	1st Level / 2ed Semester			
5	Pre –Requisite (if any):	Dental Morphology I			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assoc. Prof. Dr. Ibrahim Z. Al-Shami			

III. Course Description:

Dental anatomy II is a continuous course with the former that focuses on theoretical knowledge of the anatomy of teeth and related structures and carving of posterior teeth from wax blocks. The course comprises lectures and laboratory sessions. It deals with the dental anatomy and morphology of human dentition, (permanent and deciduous) includes the dental arches relationship, teeth alignment, occlusion and the characteristics that maintain anatomical form which promotes health of the dental supporting structures. Upon completion of lectures and laboratory, students will be able to carve posterior teeth with proper anatomy, occlusion and contour.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	Define the primary, mixed and permanent dentitions.
a2	Distinguish the morphological characteristics of different kinds of teeth.
a3	Understand eruption schedule of deciduous and permanent teeth.
	B. Intellectual Skills:
b1	Explain the differences among primary, permanent, and mixed dentitions and describe the general and specific features of each.
b2	Explain the teeth alignments, articulation and the self-protective feature of the dentition.
b3	Interpret the relationship between tooth contours and periodontal health
	C. Professional and Practical Skills:
c1	Perform manual wax carving for all permanent maxillary molars and mandibular premolar and molars
c2	Replace missing tooth surfaces with wax to normal anatomical and morphological features
c3	Draw to scale two dimensions of posterior teeth following the lectures outline, using the table of measurements provided.
	D. Transferable Skills:
d1	Develop a dental vocabulary and the ability to use it in communication with dental assistants and colleagues easily.
d2	Manage time during lab work

IV. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	The Permanent mandibular 1 st premolars.	– Descriptive Anatomy of mandibular 1 st premolars.	1	2
2	The Permanent mandibular 2 ^{ed} premolars.	– Descriptive Anatomy of mandibular 2 ^{ed} premolars.	1	2

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
3	The Permanent maxillary molars	– Descriptive Anatomy of maxillary 1 st , 2 nd and 3 rd molars	3	6
4	The Permanent mandibular molars	- Descriptive Anatomy of mandibular 1 st , 2 nd and 3 rd molars	2	6
5	Midterm Exam	– MCQs and essay questions	1	2
6	The deciduous teeth	– Primary anterior teeth – Primary posterior teeth – characteristics – Geometric outlines – Difference between deciduous and permanent dentition	3	6
7	General consideration in the Physiologic form of the teeth and periodontium	– dental arches relationship – tooth contours and periodontal health	1	2
8	Occlusion of the primary and permanent teeth	– teeth alignment and occlusion. – occlusion of the primary and permanent teeth	2	4
9	Review	– All previews topics	1	2
10	Final Exam	– MCQs and essay questions	1	2
Number of Weeks /and Units Per Semester			16	32

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Revision on upper premolars	1 st - 2 nd	4
2	Carving of mandibular first premolar	3 th - 4 th	4
3	Carving of mandibular second premolar	5 th - 6 th	4
4	Carving of maxillary first molar	7 th - 8 th	4
5	Carving of maxillary second molar	9 th - 10 th	4
6	Carving mandibular first molar	11 th -12 th	4
7	Carving of mandibular second molar	13 th - 14 th	4
8	Practical Exam	15 th	2
Number of Weeks /and Units Per Semester		15	30

VI. Teaching Strategies of the Course:

Lectures
Lab Sessions
Demonstrations
Discussions

VII. Assessment Methods of the Course:

Quizzes
Midterm Exam
Final Exam
Practical Exam
Semester Work
Direct Observation

VIII. Assignments:			
No.	Assignments	Week Due	Mark
1	Semester work - Wax carving technique for premolars and posterior teeth (laboratory work)	1- 14	10
Total			10

IX. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1- 14	10	10%
2	Quizzes 1 and 2	4-12	10	10 %
3	Midterm Exam	8	20	20 %
4	Practical Exam	15	20	20 %
5	Final Exam	16	40	40 %
Total			100	100%

X. Learning Resources:	
1- Required Textbook(s) :	
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Kumar, 2004: Textbook of Dental Anatomy and Tooth Morphology, Jaypee Brothers Publishers	
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3- Lippincott Williams & Wilkins) by Rickne C. Scheid. Woelfel's, 2007: Dental Anatomy: Its Relevance to Dentistry.	
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Websites:

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http://www.3dmouth.org/4/4_intro.cfm

2- Pub med.

3- Sciencedirect

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