



Republic of Yemen

Ministry of Education & Scientific Research

21 September University of Medical and Applied Sciences

Faculty of Dentistry

Department of Basic Sciences

Bachelor's Program of Dental Surgery, BDS

Course Specification of

Dental Anatomy 2

Course No. (09.11.914)

Prepared by:

Assistant Professor
Omar Ahmed Aldoosari

Reviewed by:

Prof. Abdulwahab Al-kholani

I. General Information:

1.	Course Title:	Dental Anatomy 2				
2.	Course Code:	09.11.914				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		3	2		2	
4.	Level/ Semester at which this Course is offered:	Level 1/ Semester (2)				
5.	Prerequisite (if any):	Dental Anatomy 1				
6.	Co-Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of Dental Surgery (B.D.S).				
8.	Medium of Instruction:	English				
9.	Study System:	Semester-Based System				
10.	Mode of Delivery:	Theoretical knowledge and practical skills				
11.	Location of Teaching the Course:	University of 21 September University of Medical & Applied Sciences, Yemen.				
12.	Prepared by:	Assistant Prof. Omar Ahmed Aldoosari				
13	Date of Approval:	2025				

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Assistant Prof.
Omar A. Aldoosari

Reviewed by:

II. Course Description:

This course is a completion to the Dental anatomy 1, it's an essential in bachelor of dentistry which provide all basic information about descriptive anatomy of teeth beginning by introduction of anatomical division of oral cavity and teeth, teeth, external and internal anatomy, with how to make a comparison between different teeth regarding the difference in shape or functions, as well as how acquire hand skill and imagination power to carve and draw teeth through practical session exactly

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs		
A. Knowledge and Understanding:		I, A or E		
a1	Describe the scientific basis of teeth growth, development, and health			A1
a2	Demonstrate the basic anatomic features of human permanent and deciduous teeth.			A2
B. Intellectual Skills:				
b1	Incorporate theoretical basic dental sciences with the clinical signs and symptoms for appropriate understanding of disease			B1
C. Professional and Practical Skills:				

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III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs		
c1	Detect pathological conditions related to the permanent and deciduous teeth.			C1
D. Transferable Skills:				
d1	Identify patients' expectations, desires, and attitudes in tooth form and anatomy when considering treatment planning.			D7

IV. Alignment of Course Intended Learning Outcomes to Teaching Strategies and Assessment Methods:		
(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, a2	- Active Lectures: - Discussion. - Case Study. - Examples.	- Quizzes - Mid-Term Exam (theoretical) - Final Exam (theoretical) - Evaluation assignment

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(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
b1	- Active Lectures: - Discussion. - Case Study. - Examples. - Brainstorming.	- Quizzes - Mid-Term Exam (lab and theoretical) - Final Exam (lab and theoretical) - Evaluation assignment	
(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	- Assignments - presentation - Practical Session	- Quizzes - Mid-Term Exam (lab) - Final Exam (lab) - Evaluation assignment	
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			

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Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Assignments	Evaluation assignment

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	The permanent maxillary 1 st premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
2	The permanent maxillary 2 nd premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
3	The permanent mandibular 1 st premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
4	The permanent mandibular 2 nd premolar	- General characteristics - Differences between two mandibular premolars - Description of tooth aspects - Variations from normal - Right and left	1	2	
5	The permanent maxillary 1 st molars	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
6	The permanent maxillary 2 nd molars	- General characteristics - Differences between two maxillary premolars - Description of tooth aspects	1	2	

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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		- Variations from normal - Right and left			
7	Revision		1		
8	Midterm Examination				
9	The permanent mandibular 1st molar	- General characteristics - Description of tooth aspects - Important anatomical landmarks on the permanent mandibular first molars. - Variations from normal. - Right and left	2	4	
10	The permanent mandibular 2nd and 3rd molars	- General characteristics - Description of the crown and root form of the tooth - Variations from normal - Right and left	1	2	
11	The primary(deciduous) teeth Anteriors	- General characteristics - Comparison between permanent and deciduous teeth. - Description of individual anterior deciduous teeth	1	2	
12	The primary(deciduous) teeth Posteriors	- General characteristics - Comparison between permanent and deciduous teeth. - Description of individual posterior deciduous teeth	1	2	
13	Occlusion	- Definition, factors influencing occlusion, Inclination of individual teeth - compensatory curves. - Centric relation & Centric occlusion - protrusive, retrusive &	2	4	

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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		lateral occlusion. - Clinical significance of normal occlusion. Introduction to & Classification of Malocclusion.			
14		- Final Examination	1	2	
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Weekly Due	Contact Hours	Learning Outcomes (CILOs)
1	Drawing and carving of the upper first premolar	2	4	a1, b1, b2, c1, d1
2	Drawing and carving of the upper second premolar	1	2	a1, b1, b2, c1, d1
3	Drawing and carving of the lower first premolar	2	4	a1, b1, b2, c1, d1
4	Drawing and carving of the lower second premolar	1	2	a1, b1, b2, c1, d1
5	Revision	1	2	a1, b1, b2, c1, d1
6	Drawing and carving of the upper first molar	2	4	a1, b1, b2, c1, d1

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B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Weekly Due	Contact Hours	Learning Outcomes (CILOs)
7	Drawing and carving of the lower first molar	2	4	a1, b1, b2, c1, d1
8	Arts of carving and occlusion	2	4	a1, b1, b2, c1, d1
9	Final Examination	2	4	
Number of Weeks /and Units Per Semester		14	28	

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1				
2				
3				
Number of Weeks /and Units Per Semester				

VI. Teaching Strategies of the Course:

- Active Lectures:
- Discussion.
- Case Study

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- Examples.
- Brainstorming.
- Cooperative learning
- Assignments
- Tutorials
- presentation
- Practical Session
- Directed self-learning based on using the Web Computer

VIII. Assignments:

No.	Assignments	Weekly Due	Mark	Aligned CILOs (symbols)
1	Individual Assignments	1-14	15	a1, a2, b1 c2, d1
2	Attendance	6, 12	5	a1, a2, b1 c2, d1
Total			20	

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

No.	Assessment Method	Weekly Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	1-14	20	20%	a1, a2, b1 c2, d1
2	Midterm Exam (Theoretical)	8	20	20%	a1, a2, b1 c2, d1
3	Final Exam (Lab)	16	20	20%	a1, a2, b1 c2, d1
4	Final Exam (Theoretical)	16	40	40%	a1, a2, b1 c2, d1
Total			100	100%	

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X. Learning Resources:

1- Required Textbook(s) (maximum two):

- Ash- Wheeler's dental anatomy, physiology, and occlusion, seventh edition, 1993, W.B.Saunders Co.
- Wheeler's Dental Anatomy, Physiology, and Occlusion; by Major M Ash & Stanley J Nelson, 9th edition, W. B. Saunders, 2009.

2- Essential References.

- Kraus dental anatomy & occlusion second edition 1992, by Ronald e.jordan &leonard abrams Mosby
- Dental Anatomy It's Relevance to Dentistry; by Julian B Woelfel & Rickne C Scheid, 6th edition, Williams & Wilkins, 2001.

3- Electronic Materials and Websites, etc.:

Websites:

- 1 Operative dentistry journal
- Journal of British conservative dentistry
- Journal of Dental Research
- Dental material journal

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

Class Attendance: -

1

Students must attend all the theoretical sessions in class and constantly show individual progression until the week of the deadline. An attendance rate of 80% is the minimum requirement for this course. Students failing to meet this requirement will face a penalty of a mark percentage deduction. Any progression checks after due dates will NOT be accepted, unless you have valid reasons with supportive documents.

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XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

2	Tardiness: If the student is tardy more than 15 minutes from the lecture's starting time, they are prevented from entering the lecture and are considered absent
3	Exam Attendance/Punctuality: A student who is absent from attending the exam is failed unless they come with an acceptable excuse.
4	Assignments & Projects: Assignments must be submitted on the due date and handed personally to your module lecturer. Assignments can be submitted before the due date outside of class with the prior agreement of the lecturer. Late Assignments / Extensions Work that is submitted after the due date will be PENALIZED. 2 marks will be deducted every subsequent day after failure to submit on the deadline set by the lecturers. Deduction applies on weekdays and Saturdays. No work will be accepted after one week of delay from the deadline given, unless you have valid reasons with supportive documents. Extensions can only be granted if a student can show adequate progress towards completion of the assessment and there are extenuating circumstances preventing them from delivering the assessment on the due date. In the case of a request for an extension due to medical circumstances, students must produce an original medical certificate. The lecturer will only give extensions for a total amount of time not exceeding the equivalent number of days the medical certificate is considered valid.
5	Cheating: Cheating is an act of fraud that results in the cancellation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancellation of the student's exam, assignment, or project. If it takes place in a final exam, the penalties stipulated in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies:

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Faculty of Dentistry
Department of Basic Sciences

Bachelor's Program of Dental Surgery, BDS

Course Specification of

Dental Anatomy 2

Course No. (09.11.914)

Information about the Faculty Member Responsible for the Course:						
Name of Faculty Member:	Assistant Prof. Omar Ahmed Aldoosari		Office Hours			
Location& Telephone No.:	Sana'a 777751077		18			
E-mail:	omarik2003@gmail.com		SAT	SUN	MON	TUE WED THU

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Reviewed by:

I. Course Identification and General Information:

1.	Course Title:	Dental Anatomy 2			
2.	Course Code:	09.11.914			
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours
			Lecture	Tutorial/Seminar	Lab Clinical
		3	2		2
4.	Level/ Semester at which this Course is offered:	Level 1/ Semester (2)			
5.	Prerequisite (if any):	Anatomy 1			
6.	Co-Requisite (if any):	None			
7.	Program (s) in which the Course is Offered:	Bachelor of Dental Surgery (B.D.S).			
8.	Medium of Instruction:	English			
9.	Study System:	Semester-Based System			
10.	Mode of Delivery:	Theoretical knowledge and practical skills			
11.	Location of Teaching the Course:	University			
12.	Prepared by:	Assistant Prof. Omar Ahmed Aldoosari			
13.	Date of Approval:	2025			

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Reviewed by:

II. Course Description:

This course consists of two parts, it's an essential in the Bachelor of dentistry, which provides all basic information about descriptive anatomy of teeth, beginning with the introduction of anatomical division of oral cavity and teeth, types of teeth, all dental terms used in tooth morphology, as well as provide the students the most international teeth numbering systems either deciduous or permanent. It also aims to give the student descriptive anatomy of the exact shape of teeth, external and internal anatomy, with how to make a comparison between different teeth regarding the difference in shape or functions, as well as how to acquire hand skills and imagination power to carve and draw teeth through a practical session.

III. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the course, students will be able to:

a1	Describe the scientific basis of teeth growth, development, and health.
a2	Demonstrate the basic anatomic features of human permanent and deciduous teeth.
b1	Incorporate theoretical basic dental sciences with the clinical signs and symptoms for an appropriate understanding of disease
C1	Detect pathological conditions related to the permanent and deciduous teeth.
d1	Identify patients' expectations, desires, and attitudes regarding tooth form and anatomy when considering treatment planning

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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	The permanent maxillary 1st premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
2	The permanent maxillary 2nd premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
3	The permanent mandibular 1st premolar	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
4	The permanent mandibular 2nd premolar	- General characteristics - Differences between two mandibular premolars - Description of tooth aspects - Variations from normal - Right and left	1	2	
5	The permanent maxillary 1st molars	- General characteristics - Description of tooth aspects - Variations from normal - Right and left	1	2	
6	The permanent maxillary 2nd molars	- General characteristics - Differences between two maxillary premolars - Description of tooth aspects - Variations from normal - Right and left	1	2	
7	Revision		1		
8	Midterm Examination				

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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
9	The permanent mandibular 1st molar	- General characteristics - Description of tooth aspects - Important anatomical landmarks on the permanent mandibular first molars - Variations from normal - Right and left	2	4	
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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Subtopics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
Number of Weeks /and Units Per Semester			16	32	

V. Teaching Strategies of the Course:

- Active Lectures:
- Discussion.
- Case Study
- Examples.
- Brainstorming.
- Cooperative learning
- Assignments
- Tutorials
- presentation
- Practical Session
- Directed self-learning based on using the Web Computer

VI. Assessment Methods of the Course:

Midterm Theoretical Exam
Assignments
Final Practical Exam
Final Theoretical Exam

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VII. Assignments:

No.	Assignments	Weekly Due	Mark
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3- Electronic Materials and Websites, etc.:

- Operative dentistry journal
- Journal of British conservative dentistry
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- Dental material journal

X. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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3	Exam Attendance/Punctuality: A student who is absent from attending the exam is failed unless they come with an acceptable excuse.
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	time not exceeding the equivalent number of days the medical certificate is considered valid.
5	Cheating: If the student is caught in a cheating case, he is considered failed this exam, and the student must pay a fine as punishment
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancellation of the student's exam, assignment, or project. If it takes place in a final exam, the penalties stipulated in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University's 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.