



Course Specifications

Course Title:	Dental Morphology
Course Code:	RDS 111
Program:	Bachelor of Dentistry [BDS]
Department:	Restorative Dental Sciences [RDS]
College:	College of Dentistry
Institution:	Majmaah University

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A. Course Identification

1. Credit hours: 2 (1+1+0)			
2. Course type			
a.	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>	
3. Level/year at which this course is offered: 1 st Semester / 1 st Year			
4. Pre-requisites for this course (if any): NA			
5. Co-requisites for this course (if any): NA			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	25%
2	Blended	NA	NA
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other - Laboratory	45	75%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	15
2	Laboratory/Studio	45
3	Tutorial	-
4	Others (specify)	-
	Total	60
Other Learning Hours*		
1	Study	30
2	Assignments	15
3	Library	15
4	Projects/Research Essays/Theses	-
5	Others (specify)	-
	Total	60

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

It is a single semester course, given as one lecture and one practical session. Dental Morphology course comprises instructions in the principles of Dental anatomy, nomenclature and morphology of teeth. Dental Morphology is one of the important courses in dentistry. The understanding of morphology of the individual teeth helps us to differentiate and identify the teeth in the oral cavity. It also is useful in restoring lost or damaged tooth structure. Knowledge about the roots and pulp canals of each of the teeth helps us during extractions and root canal treatment.

2. Course Main Objective

To know all the different types of teeth, identify and carve them students restore the missing coronal surfaces of complete tooth models by a wax carving technique. This is designed to reinforce the theoretical knowledge gained in the lectures, as well as contribute towards the development of manual dexterity, a skill which is essential in the practice of dentistry. Identification of natural tooth specimens forms a significant part of the practical component of the course.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
K1.5	Identify and define the various tissues of teeth and related landmarks	K1
K1.6	Demonstrate the ability to identify and differentiate between various teeth based on their characteristic features	
2	Skills :	
S1.5	Correlate information of interrelated topics and explain the clinical significance of variations of tooth morphology	S1
S6.1	Manipulate wax and carve morphology of various teeth in wax	S6
3	Competence:	
C1.3	Demonstrate professional qualities and behavior towards the staff and fellow colleagues during sessions and tasks	C1

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Dental Morphology Overview of Dental Morphology Importance of the subject Outline of the topics to be covered in the course	1
2	Dental terminology of permanent Dentition Introduction Divisions of tooth Landmarks of tooth	1
3	Descriptive Anatomy of Maxillary Permanent Incisors Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect	1

	Distal aspect Incisal/occlusal aspect	
4	Tooth anatomy and Notation Introduction Systems of notation Advantages Disadvantages	1
5	Descriptive Anatomy of mandibular Permanent Incisors Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	1
6	Descriptive Anatomy of Maxillary Canine Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	1
7	Descriptive Anatomy of Mandibular Canine Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	1
8	Descriptive Anatomy of Maxillary Premolars Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	1
9	Descriptive Anatomy of Mandibular Premolars Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	1
10	Descriptive Anatomy of Maxillary permanent molars Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect	2

	Distal aspect Incisal/occlusal aspect	
	Descriptive Anatomy of Mandibular permanent molars Introduction Chronology Labial/ facial aspect Lingual aspect Mesial aspect Distal aspect Incisal/occlusal aspect	2
	Difference between deciduous and permanent dentition Importance of deciduous teeth Difference in functions Morphological differences Histological differences	2
Total		15

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1	Knowledge		
K1.5	Identify and define the various tissues of teeth and related landmarks	Lectures, Practical lab	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments
K1.6	Demonstrate the ability to identify and differentiate between various teeth based on their characteristic features	Lectures, Practical lab	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments
2	Skills :		
S1.5	Correlate information of interrelated topics and explain the clinical significance of variations of tooth morphology	Lectures, Practical lab	Conceptual, Analytical or Evaluative questions in Written exams , Oral evaluations, OSPE, Assignments, weekly assessments
S6.1	Manipulate wax and carve morphology of various teeth in wax	Model demonstration; Practice during lab hours.	Weekly assessment; practical examination
3	Competence:		
C1.3	Demonstrate professional qualities and behavior towards the staff and fellow colleagues during sessions and tasks	Expected professional behavior will be explained to them and also guidelines will be provided in	The group task / Assignment will be supervised closely each student will be evaluated using rubrics. DOP using rubrics

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		the study guide/ lab manual.	

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1 + 2	Week 4 & Week 10	05%
2	Midterm exam – Theory	Week 7	20%
3	Behavior / Professionalism	During the course	05%
4	Assignment	During the course	10%
5	Weekly Assessment	During the course	20%
6	Final Practical Exam	Week 14	20%
7	Final Theory Exam	Week 16	20%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

The student shall avail the consultancy during the displayed office hours

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Wheeler's Dental anatomy, Physiology and Occlusion ; 9 th Edition. Author – Nelson, Ash; Publisher - Elsevier
Essential References Materials	✓ Textbook of Dental Anatomy – 1 st edition Author - Maji jose, jaypee publishers
Electronic Materials	✓ Carving demonstration videos on internet.
Other Learning Materials	None

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> ✓ Lecture room suitable for 30 students ✓ Fully equipped lab for practical carving sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> ✓ Projector ✓ Smart board with all the accessories ✓ Internet

Item	Resources
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> ✓ Carving wax blocks ✓ Instruments for trimming and carving wax

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	<ul style="list-style-type: none"> ✓ Course Evaluation Survey ✓ Quality of Exam Survey
	Faculty	<ul style="list-style-type: none"> ✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis ✓ Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	<ul style="list-style-type: none"> ✓ Direct assessment outcome analysis ✓ Course report preparation
Quality of learning resources, etc	Students / Faculty	<ul style="list-style-type: none"> ✓ Academic advising survey ✓ Student experience survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	Meeting no # 5
Date	30/8/1440