Course Specifications

Course Title:	**Clinical Orthodontics**
Course Code:	**PDS 531**
Program:	**BACHELOR OF DENTAL SURGERY (BDS)**
Department:	**Preventive Dental Sciences.**
College:	**College of Dentistry**
Institution:	**Majmaah University**

Table of Contents

A. Course Identification 3

6. Mode of Instruction (mark all that apply) 3

B. Course Objectives and Learning Outcomes 4

1. Course Description 4

2. Course Main Objective 4

3. Course Learning Outcomes 4

C. Course Content 4

D. Teaching and Assessment 5

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods 5

2. Assessment Tasks for Students 6

E. Student Academic Counseling and Support 6

F. Learning Resources and Facilities 6

1.Learning Resources 6

2. Facilities Required 6

G. Course Quality Evaluation 7

H. Specification Approval Data 7

1. Credit hours:	**1** HOUR
2. Course type	
a.	University ☐ College ☐ Department ☒ Others ☐
b.	Required ☒ Elective ☐
3. Level/year at which this course is offered:	**5th Year 1st Semester**
4. Pre-requisites for this course (if any)**: Pre-Clinical Orthodontics PDS 433**	
5. Co-requisites for this course (if any)**: None**	

A. Course Identification

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	-	-
2	**Blended**	-	-
3	**E-learning**	-	-
4	**Correspondence**	-	-
5	**Other**	45	100%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	-
2	**Laboratory/Studio**	-
3	**Tutorial**	-
4	**Others** (specify) - clinical	45
	Total	45
Other Learning Hours*		
1	**Study**	30
2	**Assignments**	10
3	**Library**	10
4	**Projects/Research Essays/Theses**	10
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

During clinical sessions students will be trained to distinguish moderate from complex problems, because this process determines which patients are appropriately treated within family (general dentistry) practice and which are most appropriately referred to a specialist. This course develops their skills to fabricate and manage the appliances necessary to treat simple cases. this will also enhance to manage orthodontic emergencies like broken appliance, debonded bracket, facial and /or oral trauma, poking wires, broken or lost retainers etc.

2. Course Main Objective

Clinical orthodontics course is designed for undergraduate students to analyze and discuss about management of orthodontic cases. This course provides them knowledge to identify and classify different types of malocclusion. During clinical sessions students will be trained to distinguish moderate from complex problems, because this process determines which patients are appropriately treated within family (general dentistry) practice and which are most appropriately referred to a specialist. This course develops their skills to fabricate and manage the appliances necessary to treat simple cases. this will also enhance to manage orthodontic emergencies like broken appliance, debonded bracket, facial and /or oral trauma, poking wires, broken or lost retainers etc.

3. Course Learning Outcomes

CLOs	Aligned-PLOs	
	Knowledge:	
K3.33	Knowledge of interpretation of diagnostic records and to distinguish between pathological and developmental problems and the adverse effects of orthodontic treatment and its management. of orthodontic emergency.	**K3**
	Skills :	
S4.8	Student should be able to choose appropriate management / preventive strategies and implement them at an individual level in both adults and children	**S4**
S7.13	Should be able to make a treatment plan and necessary argent treatment procedures	**S7**
	Competence:	
C3.12	Student should be able to show good communication skills and empathy with the patients and their families and also with the members of health team including documentation	**C3**

C. Course Content

No	List of Topics	Contact Hours
1-2	Patient's history, clinical examination, and diagnostic records.	6
3-4	Analysis of diagnostic records.	6
5	Case discussion, diagnosis and treatment planning.	3
6	Fabrication and management of removable appliance	3
7	Management of removable appliances	3
8-9	Fixed orthodontic appliance- banding and bonding	6

	demonstration	
10	Management of orthodontic emergencies- severe / or prolonged pain, swelling, facial and / or oral trauma, broken brackets , band or wires, poking wires etc.	3
11	Problem based - learning- tutorial session to analyze and discuss class I and orthodontic case.	3
12	Problem based - learning- tutorial session to analyze and discuss class II and class III orthodontic case.	3
13	Problem based learning- tutorial session to analyze and discuss functional case.	3
14	Problem based learning- tutorial session to analyze and discuss orthopaedic case.	3
15	Problem based learning- tutorial session to analyze and discuss orthognathic (orthodontic surgical) case.	3
Total		

D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Knowledge of interpretation of diagnostic records and to distinguish between pathological and developmental problems..	Clinical sessions-demonstrations discussion, audiovisual	Clinical examination, Quiz
1.2	Knowledge of the adverse effects of orthodontic treatment and its management. of orthodontic emergency.	Clinical sessions-demonstrations discussion, audiovisual	Clinical examination, Quiz
2.0	**Skills**		
2.1	Students should be able to interpret inferences from diagnostic records	Clinical sessions-demonstrations discussion, Audiovisual aids	Clinical examination Quiz,Problem based learning
2.2	Should be able to make a treatment plan	Clinical sessions-demonstrations discussion, Audiovisual aids	Clinical examination Quiz,Problem based learning
3.0	**Competence**		
3.1	The students should refer to the text book as well as internet web sites for more information.	Students will be divided into small groups and tasks will be assigned to the group	The group task / Assignment will be supervised closely and the work done by each student will be evaluated using rubrics

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Research	During the semester	5
2	Homework	During semester	10
3	Behavior	During the semester	5
4	Weekly clinical assessment	During the semester	40
5	Final Exam	End of semester	40

***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 :
Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)
Office hours
Sunday:
11:00 to 1:00 pm
Monday:
9:00 to 11:00 am

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Contemporary orthodontics: 5th edition William R. Proffit
Essential References Materials	Orthodontics: the art and science: 5th edition, S.I. Bhalaji. American journal of orthodontics and orthopaedics
Electronic Materials	Web Sites Model analysis and cephalometry demonstration videos.
Other Learning Materials	NONE

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	✓ Clinic suitable for 30 students

Item	Resources
Technology Resources (AV, data show, Smart Board, software, etc.)	✓ Programme of cephalometric ✓ Study cast analysis
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	✓

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	✓ Course Evaluation Survey Quality of Exam Survey
	Faculty	✓ 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	✓ Direct assessment outcome analysis Course report preparation
Quality of learning resources, etc	Students / Faculty	✓ Academic advising survey Student experience survey
Effectiveness of teaching and assessment	Students	✓ Course Evaluation Survey Quality of Exam Survey
	Faculty	✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis Psychometric Analysis

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	Effectiveness of teaching and assessment
Reference No.	1/1441
Date	2/1/1441