



Course Specifications

Course Title:	Clinical Periodontics-I
Course Code:	PDS 313
Program:	Bachelor of Dentistry [BDS]
Department:	Preventive Dental Sciences Department [PDS]
College:	College of Dentistry
Institution:	Majmaah University

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A. Course Identification

1. Credit hours: 4 (2+0+2)
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: 3 rd Year / 1 st and 2 nd Semester
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	30	40%
2	Blended	NA	NA
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other - Clinics	90	60%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Clinics	90
3	Tutorial	-
4	Others (specify)	-
	Total	120
Other Learning Hours*		
1	Study	90
2	Assignments	15
3	Library	15
4	Projects/Research Essays/Theses	-
5	Others (specify)	-
	Total	120

* 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

This course continues on building students' knowledge related to periodontal diseases, classification of periodontal conditions, describes disease process, clinical and radiographic features, risk factors, and etiology of periodontal diseases. The course also ascertains major clinical management concepts and treatment options, re-evaluation and prevention strategies for common periodontal diseases. On the other hand, the course helps students to make relevant clinical history, diagnostic measures, perform oral examination, to develop diagnosis, discuss prognosis and make proper treatment plan for periodontal conditions. Finally students will know how to motivate and instruct patients in oral hygiene and prophylactic measures.

2. Course Main Objective

The main purpose of the course is to introduce the discipline of periodontology and its principles to the students. It covers the structure and function of periodontium in state of health and disease. It also provides the students with the required knowledge of etiology, pathogenesis, diagnosis and management plans of periodontal diseases.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
K1.12	Recall the microscopic and macroscopic features of the periodontium in health and disease.	K1
2	Skills :	
S1.12	Correlate between the normal and abnormal periodontal structures with the clinical features of orofacial health and disease for best management of periodontal disease.	S1
S7.5	Demonstrate hand-eye coordination skills to make diagnosis and treatment plan of different forms of periodontal diseases with different non-surgical treatment modalities like supra-gingival scaling.	S7
3	Competence:	
C3.4	Demonstrate effective communication skills with the patients, their families and all members of the health team including documentation.	C3

C. Course Content

No	List of Topics	Contact Hours
1	The normal periodontium: Gingiva. <ul style="list-style-type: none"> ➤ Definition & classification, ➤ Microscopic features, ➤ Macroscopic features, ➤ Correlation between clinical picture and microscopic features. 	2
2	The normal periodontium: Tooth supporting structures. <ul style="list-style-type: none"> ➤ Periodontal ligament microscopic features and clinical implication. 	3

	<ul style="list-style-type: none"> ➤ Cementum microscopic features and clinical implication. ➤ Alveolar bone microscopic features and clinical implication. 	
3	Classification of periodontal diseases. <ul style="list-style-type: none"> ➤ AAP classification 1999, ➤ Classification of gingival diseases, ➤ Classification of periodontal diseases. 	1
4	Gingivitis. <ul style="list-style-type: none"> ➤ Definition. ➤ Stages of gingivitis. ➤ Clinical features of gingivitis. ➤ Correlation between clinical & microscopic features. ➤ Treatment of gingivitis. 	1
5	Chronic periodontitis. & Aggressive periodontitis. <ul style="list-style-type: none"> ➤ Clinical features of chronic periodontitis, diagnosis, and treatment. ➤ Clinical features of Localized aggressive periodontitis, diagnosis, and treatment. ➤ Clinical features of generalized aggressive periodontitis, diagnosis, and treatment. ➤ Risk factors for aggressive periodontitis. 	1
6	Instruments and principles of instrumentations (basic). <ul style="list-style-type: none"> ➤ Definition of each Instrument ➤ Types of Instruments, ➤ Principles of instrumentations. 	1
7	Consequences of periodontal diseases: <ul style="list-style-type: none"> ➤ Periodontal pocket. ➤ Patterns of bone loss. ➤ Furcation involvement. ➤ Gingival recession. 	1
8	Periodontal emergencies / acute periodontal conditions I: Gingival abscess, Periodontal abscess & Pericoronitis. <ul style="list-style-type: none"> ➤ Definition of each one, ➤ Types of each one, ➤ Causes of each one, ➤ Clinical features, ➤ Treatment of each one. 	1
9	Periodontal emergencies / acute conditions II: Primary herpetic gingivostomatitis <ul style="list-style-type: none"> ➤ Definition, ➤ Types, ➤ Causes, ➤ Clinical features, ➤ Treatment. 	1
10	Periodontal emergencies / acute conditions III: NUG / NUP. <ul style="list-style-type: none"> ➤ Definition of each one, ➤ Causes of each one, ➤ Clinical features, ➤ Treatment. 	1
11	Revision	2

12	Etiology of periodontal disease: Periodontal microbiology. <ul style="list-style-type: none"> ➤ Definition, of dental plaque. ➤ Classification, of dental plaque. ➤ Composition, Formation of dental plaque. Virulence factors of periodontal pathogens.	1
13	Etiology of periodontal disease: host-microbial interaction. <ul style="list-style-type: none"> ➤ Immune cells. ➤ Inflammatory mediators. ➤ The story of host-microbial interaction. ➤ Microbiological aspects of Microbial interaction with the host. ➤ Immunological aspects of Microbial interaction with the host. 	1
14	Influence of systemic disease and disorders on periodontium and vice versa. <ul style="list-style-type: none"> ➤ Endocrine disorders, ➤ Hematologic disorders, ➤ Nutritional influences. ➤ Cardiovascular diseases, ➤ Respiratory diseases, ➤ Pregnancy outcomes. 	3
15	Role of Dental calculus, other predisposing factors (inter-disciplinary ortho, proth, etc), & Role of smoking in periodontal disease. <ul style="list-style-type: none"> ➤ Definition, classification, Composition, Formation of dental calculus, ➤ Role of Dental calculus in PD. ➤ Relationship between Periodontics and orthodontics, Endodontics & Prosthodontics. ➤ Role of smoking in periodontal disease. 	2
16	Diagnosis prognosis and treatment plan of periodontal disease. <ul style="list-style-type: none"> ➤ Patient history, ➤ Clinical examination (oral & periodontal). ➤ Advances in periodontal diagnosis. ➤ Radiographic techniques for assessment, ➤ Limitations of radiographs. ➤ Treatment plan of periodontal disease. ➤ Maintenance phase of treatment plan. ➤ Disease prognosis & Factors affecting it. 	3
17	Oral hygiene aids and agents. <ul style="list-style-type: none"> ➤ Oral hygiene agents used for Mechanical plaque control. ➤ Oral hygiene agents used for chemical plaque control. 	2
18	Revision	3
Total		30

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		
K1.12	Recall the microscopic and macroscopic features of the periodontium in health and disease.	<ul style="list-style-type: none"> ✓ Lecture. ✓ Clinical Session. 	<ul style="list-style-type: none"> ▪ Written exams. ▪ Clinical exam.
2	Skills :		
S1.12	Correlate between the normal and abnormal periodontal structures with the clinical features of orofacial health and disease for best management of periodontal disease.	<ul style="list-style-type: none"> ✓ Lecture. ✓ Clinical Session. 	<ul style="list-style-type: none"> ▪ Written exams. ▪ Clinical exam ▪ Assignments. ▪ Weekly assessment. ▪ Approved procedures documented in logbook.
S7.5	Demonstrate hand-eye coordination skills to make diagnosis and treatment plan of different forms of periodontal diseases with different non-surgical treatment modalities like supra-gingival scaling.		
3	Competence:		
C3.4	Demonstrate effective communication skills with the patients, their families and all members of the health team including documentation.	<ul style="list-style-type: none"> ✓ Clinical Session. 	<ul style="list-style-type: none"> ▪ Weekly assessment. ▪ Clinical exam.

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	During the course	05 %
2	Midyear exam – Theory	Week 15	20 %
3	Professionalism / Assignment	During the course	05 %
5	Weekly Assessment	During the course	30 %
6	Final Clinical Exam	Week 29	20 %
7	Final Theory Exam	Week 30	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 availability of the staff will be placed in front of the office in staff schedule as 2 office hours.
- ✓ Academic advising unit for each year functions separately, it will hold periodic meeting with the students for feedback
- ✓ Students will be informed in advance to assemble themselves in the classroom for discussions regarding difficulties in learning, attendance, facilities. etc.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	✓ CARRENZA's clinical Periodontology – Michael G Newmann, Carrenza, Henry Takei, Perry R, Klokkevold- Elsevier - Recent Edition.
Essential References Materials	✓ Text book of Clinical Periodontology and implant dentistry - Jan LINDHE , Niklaus P, Lang And Thorkild, Karring – Blackwell - Recent Edition.
Electronic Materials	✓ Website of American Academy of Periodontology.
Other Learning Materials	<ul style="list-style-type: none"> ✓ Articles prepared by course director. ✓ Video for supra-gingival scaling technique. ✓ Presentations.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, clinics, etc.)	<ul style="list-style-type: none"> ✓ Lecture room suitable for 30 students ✓ Fully equipped clinic for clinical sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> ✓ Projector ✓ Smart board with all the accessories ✓ Internet
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> ✓ Dental chairs ✓ Periodontal instruments

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.
	HODs	<ul style="list-style-type: none"> ✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting. ✓ Grade Analysis. ✓ SCHS graduates results.
	Peers.	<ul style="list-style-type: none"> ✓ 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.	1/1441
Date	2/1/1441