جامعة المجمعة
Majmaah University

Course Specifications

Institution:	**College of Dental Medicine**
Academic Department :	**Preventive dental sciences**
Programme :	BDS
Course :	**Clinical periodontics-I**
Course Coordinator :	Dr. Mohamed Helmy Salama
Programme Coordinator :	Dr. Abdul Rahman Alatram
Course Specification Approved Date :	28/12/1435 H

This form compatible with NCAAA 2013 Edition

A. Course Identification and General Information:

1 - Course title : **Clinical periodontics I** Course Code: **313 PDS**			
2. Credit hours : (3)			
3 - Program(s) in which the course is offered: **PDS**			
4 – Course Language : English			
5 - Name of faculty member responsible for the course: **Dr. Mohamed Helmy Salama**			
6 - Level/year at which this course is offered : **3rd**			
7 - Pre-requisites for this course (if any) : • **None**			
8 - Co-requisites for this course (if any) : • **None**			
9 - Location if not on main campus **: (Zulfi)**			
10 - Mode of Instruction (mark all that apply)			
A - Traditional classroom	√	What percentage?	**40 %**
B - Blended (traditional and online)	√	What percentage?	**15 %**
D - e-learning	√	What percentage?	**5 %**
E - Correspondence		What percentage?	**0 %**
F - Other (Clinical Demonstration)	√	What percentage?	**40 %**
Comments: Using smart board, attractive audio-visual aids and practical demonstration.			

B. Objectives:

What is the main purpose for this course?

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.

Briefly describe any plans for developing and improving the course that are being implemented:

The practical course will be supported with the help of power point and videos containing high resolution images for various forms of periodontal disease because of scarcity of patients. In addition, increased use of visual aids like models would be recommended.

C. Course Description:

This course introduces 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 of periodontal diseases. The principles and techniques of disease prevention are discussed. In addition, instrumentation and therapy of early periodontal diseases is part of this clinical course.

1. Topics to be covered:

A- Lectures: 1st SEMESTER:

List of Topics	No of weeks	Contact hours
Anatomy of the periodontium: Gingiva. ➢ Definition, ➢ Classification, ➢ Microscopic features, ➢ Macroscopic features, ➢ Correlation between clinical and microscopic features.	**1**	**1**
Anatomy of the periodontium: PDL. ➢ Definition, ➢ Composition, ➢ Microscopic features, ➢ Correlation between clinical & microscopic features.	**1**	**1**
Anatomy of the periodontium: Cementum. ➢ Definition, ➢ Composition, ➢ Composition, ➢ Microscopic features, ➢ Correlation between clinical & microscopic features.	**1**	**1**
Anatomy of the periodontium: Alveolar bone. ➢ Definition, ➢ Composition, ➢ Microscopic features, ➢ Correlation between clinical & microscopic features.	**1**	**1**
Classification of periodontal diseases. ➢ AAP classification 1999, ➢ Classification of gingival diseases, ➢ Classification of periodontal diseases.	**1**	**1**
Gingivitis. ➢ Definition. ➢ Stages of gingivitis. ➢ Clinical features of gingivitis. ➢ Correlation between clinical & microscopic features. ➢ Treatment of gingivitis.	**1**	**1**

Chronic periodontitis. & Aggressive periodontitis. ➢ 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. ➢ Clinical features of chronic periodontitis, diagnosis, and treatment. ➢ Risk factors for aggressive periodontitis.	**1**	**1**
Consequences of periodontal diseases I: Periodontal pocket. ➢ Definition , ➢ Classification, ➢ Macroscopic features. ➢ Microbiologic features.	**1**	**1**
Consequences of periodontal diseases II: Patterns of bone loss & Furcation involvement. ➢ Definition of bone loss. ➢ Classification of bone loss patterns. ➢ Definition of Furcation involvement. ➢ Classification Furcation involvement.	**1**	**1**
Periodontal emergencies / acute conditions I: Gingival abscess, Periodontal abscess & Pericoronitis. ➢ Definition of each one, ➢ Types of each one, ➢ Causes of each one, ➢ Clinical features, ➢ Treatment of each one.	**1**	**1**
Periodontal emergencies / acute conditions II: Primary herpetic gingivostomatitis & NUG / NUP. ➢ Definition of each one, ➢ Types of each one, ➢ Causes of each one, ➢ Clinical features, ➢ Treatment of each one.	**2**	**2**
Instruments and principles of instrumentations (basic). ➢ Definition of each Instruments, ➢ Types of Instruments, ➢ Principles of instrumentations.	**1**	**1**

B- Lectures: 2 nd SEMESTER:

List of Topics	No of weeks	Contact hours
Etiology of periodontal disease: Periodontal microbiology. ➢ Definition, of dental plaque. ➢ Classification, of dental plaque. ➢ Composition, Formation of dental plaque. ➢ Virulence factors of periodontal pathogens.	**1**	**1**

Etiology of periodontal disease: host response. ➢ Immune cells. ➢ Complement. ➢ Transendothelial migration. ➢ Leucocyte functions.	**1**	**1**
Etiology of periodontal disease: host-microbial interaction. ➢ The story of host-microbial interaction. ➢ Microbiological aspects of Microbial interaction with the host. ➢ Immunological aspects of Microbial interaction with the host.	**1**	**1**
Role of Dental calculus, other predisposing factors (inter-disciplinary ortho, proth, etc), & Role of smoking in periodontal disease. ➢ 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**	**2**
Gingival recession. ➢ Gingival recession definition, ➢ Gingival recession etiology, ➢ Gingival recession types and classification.	**1**	**1**
Influence of systemic disease and disorders on periodontium and vice versa & Periodontal management of medically compromised patients. ➢ Endocrine disorders, ➢ Hematologic disorders, ➢ Nutritional influences. ➢ Cardiovascular diseases, ➢ Respiratory diseases, ➢ Pregnancy outcomes.	**2**	**2**
Epidemiology of periodontal diseases. ➢ How is gingivitis measured? ➢ How is periodontitis measured?	**1**	**1**
Periodontal diagnosis, intraoral examination, probing and advanced diagnostic techniques. ➢ Patient history, ➢ Clinical examination (oral & periodontal). ➢ Advances in periodontal diagnosis.	**1**	**1**
Radiographic aids & Radiographic interpretation in periodontology. ➢ Classification of periodontal diseases ➢ Radiographic techniques, ➢ Radiographic assessment, ➢ Digital radiography. ➢ Limitations of radiographs.	**1**	**1**
Treatment plan & prognosis. ➢ The master plan for total treatment, ➢ Therapeutic procedures, ➢ Explaining the treatment plan to the patient, ➢ Maintenance program. ➢ Disease prognosis & Factors affecting it.	**1**	**1**

Oral hygiene aids and agents. ➢ Oral hygiene agents used for Mechanical plaque control. ➢ Oral hygiene agents used for chemical plaque control.	**1**	**1**
Problem based learning. ➢ Definition, ➢ Modalities of PBL, ➢ PBL in dental clinical education, ➢ Ground rules for PBL groups.	**1**	**1**

2. Course components (total contact hours and credits per semester):

		Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	First semester	**1**	**0**	**0**	**3**	**0**	**60**
	Second semester	**1**	**0**	**0**	**3**	**0**	**60**
Credit	First semester	**1**	**0**	**0**	**1**	**0**	**30**
	Second semester	**1**	**0**	**0**	**1**	**0**	**30**

3. Additional private study/learning hours expected for students per week.

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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy:

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	Students will be able to know the clinical aspects of the anatomy, biology, and histology of gingival and periodontal tissues.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students.	One best type MCQs exams, short assay exams & quizzes.
1.2	Students will know the importance and details of classifications of periodontal diseases.	Lectures, textbook, articles & discussion.	One best type MCQs exams, short assay

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
			exams & quizzes.
١,٣	Students will know the different types of periodontal emergencies and how to deal with them.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students.	One best type MCQs exams, short assay exams & quizzes.
١,٤	Students will be able to know the etio-pathogenesis of different types of periodontal diseases.	Lectures, textbook, articles & discussion.	One best type MCQs exams, short assay exams & quizzes.
2.0	**Cognitive Skills**		
2.1	Students will be able to correlate between the histological and clinical features of different forms of periodontal disease.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students.	One best type MCQs exams, short assay exams, quizzes & clinical observation.
2.2	Students will be able to explain the cause of excellent prognosis in gingivitis and good prognosis in periodontitis.	Lectures, textbook, articles, discussion, & clinical exposure of the students.	One best type MCQs exams, short assay exams, quizzes & clinical observation.
2.3	Students will be able to perform simply treatment plans for different forms of periodontal diseases.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students.	One best type MCQs exams, short assay exams & quizzes.
3.0	**Interpersonal Skills & Responsibility**		
3.1	Students will work in groups of two students in practical lessons.	Eye to eye contacts and group works.	Group discussions and clinical observation.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
3.2	Students will do group presentations.	Group works and presentations.	Group discussions and observation.
3.3	Students will perform individual presentations so that they will learn more about self-confidence and they will take up the responsibility.	Presentations.	Discussions and observation.
4.0	**Communication, Information Technology, Numerical**		
4.1	Consent forms, subjective examination, and explanation of treatment plan to the patients.	By using attractive Audiovisual Aids, Justifications and brief descriptions.	Group discussions and clinical observation.
4.2	Communication with each other and with the technicians and teaching stuff.	Brief descriptions.	Group discussions and clinical observation.
4.3	Ability to effectively use the available search engines and softwares.	By using attractive Audiovisual Aids and brief descriptions.	Group discussions.
5.0	**Psychomotor**		
5.1	Examine/diagnose different types of periodontal diseases.	PowerPoint presentation & demonstrations on patients.	Case presentation, & Viva.
5.2	Manage different types of periodontal emergencies.	PowerPoint presentation & demonstrations on patients.	Case presentation, treatment plan, treatment procedure evaluation, Objective Structured Clinical Examination OSCE & Viva.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
5.3	Perform supra-gingival scaling.	PowerPoint presentation, demonstrations on patients, individualized attention for correction of mistake & grading of the task.	Case presentation, treatment plan, treatment procedure evaluation, OSCE & Viva.

5. Schedule of Assessment Tasks for Students during the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	Professional assessment	During the semester	10 %
2	Midterm theory exam	Scheduled	15 %
3	Midterm practical exam	Scheduled	10 %
4	Clinical assessment	During the semester	15 %
5	Oral Exam	During the semester	10 %
6	Final clinical Exam	End of the semester	10 %
7	Final theory Exam	End of the semester	30 %

D. Student Academic Counseling and Support:

- Arrangements for availability of teaching staff for individual student consultations and academic advice (include amount of time teaching staff are expected to be available each week).
- Students will be informed in advance to assemble themselves in the classroom for group discussions.
- Students will be informed about the written tasks in the form of essays.
- Students will be encouraged towards use of internet sources and library for the study and completion of the assignments.

E. Learning Resources:

1. List Required Textbooks : **CARRENZA's clinical Periodontology** – Michaei G Newmann, Carrenza, Hentry Takei, Perry R, Klokkevold- Elsevier - 2011.
2. List Essential References Materials : T**ext book of Clinical Periodontology and implant dentistry -** Jan Lindhe, Nikllaus P, Lang And Thorkild, Karring – Blackwell - 2008
3. List Recommended Textbooks and Reference Material : Periodontics medicine, surgery, and implants - genco, robert j., cohen, d. Walter, mealey, brian l- 2004
4. List Electronic Materials : • **Articles prepared by course director.** • **Video for supragingival scaling technique.** • **Presentations.**
5. Other learning material : • .....

F. Facilities Required:

1. Accommodation • **In the Classroom, number of seats is 30.** • **Laptop and Data show.** • **Smart Board.** • **Equipped dental clinics.**
2. Computing resources • **Laptop.** • **Smart Board.** • **Internet connection.**
3. Other resources • **Practical demonstration.** • **Equipped dental units.** • **Hand instruments for clinical sessions.**

G. Course Evaluation and Improvement Processes:

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching: • **Using questioners as an evaluation tools.** • **Students will be given a feedback form, which can be submitted to the quality assurance unit in the college or to the dean which will help in improvement of the teaching process.**
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor: • **Assess the teacher's abilities and potentials by observations and assistance from colleagues, independent assessment of standards achieved by students, independent advice on assignment tasks.** • **The Dean has meetings with groups of students to discuss the contents of the course, method of teaching to evaluate the course and the instructor.**
3 Processes for Improvement of Teaching : • **In service educational process means of updating the recent trends in educational process, involving in research.**
4. Processes for Verifying Standards of Student Achievement • **Describe methods used to compare standards of achievement with standards achieved elsewhere, e.g. check marking of a sample of examination papers or assignment tasks.**
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement : • **Prepare work sheet for review; refresh the previous knowledge, and panel discussions.**

Course Specification Approved
Department Official Meeting No (2) Date 28 / 12 / 1435 *H*

Course's Coordinator		Department Head	
Name :	**Dr. Mohamed Helmy Salama**	***Name :***	**Dr. Mohamed Helmy Salama**
Signature :	.....	***Signature :***	.....
Date :	28/ 12 / 1435 *H*	***Date :***	28/ 12 / 1435 *H*