Course Specifications

Course Title:	**Clinical Periodontics-II**
Course Code:	**PDS 413**
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 ☐ College ☐ Department **X** Others ☐ **b.** Required **X** Elective ☐
3. Level/year at which this course is offered: 4th Year / 1st and 2nd Semester
4. Pre-requisites for this course (if any)**: PDS 413**
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, and how to perform a comprehensive diagnosis, discuss prognosis and make treatment plan which includes the specific necessary surgical approaches including crown lengthening techniques and pocket eradication therapy. The course also ascertains motivation and oral hygiene instruction of patients in addition to subgingival scaling and root planing. On the other hand, the course helps students to understand the role of trauma from occlusion in the etiology of periodontal disease, and to introduce implant dentistry to students.

2. Course Main Objective

This course introduces the discipline of periodontology and its principles to the students. It covers the treatment plan of periodontal diseases. It also provides the students with the required knowledge of different treatment modalities of periodontal diseases including surgical and non-surgical modalities.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
K2.7	Recall the basic concepts of clinical features and management of different forms of periodontal diseases.	**K2**
2	**Skills :**	
S3.13	Apply critical thinking to formulate treatment modalities of different forms of periodontal diseases.	**S3**
S7.9	Demonstrate hand-eye coordination skills to make diagnosis and treatment plan of different forms of periodontal diseases with different non-surgical treatment modalities including sub-gingival scaling.	**S7**
3	**Competence:**	
C3.9	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	**Overview of periodontal disease and its treatment plan.** ➢ Classifications of periodontal diseases. ➢ Gingivitis. ➢ Chronic & Aggressive periodontitis. ➢ Etiology of periodontal disease. ➢ Diagnosis of periodontal disease. ➢ Treatment plan and prognosis of periodontal disease.	**2**

2	**Periodontal instruments, principles of instrumentation (Advanced).** ➢ Classification of instruments. ➢ Different types of surgical instruments & its uses. ➢ Principles of instrumentation.	**2**
3	**Systematic and Local Anti-Microbial Agents in Periodontal Therapy**. ➢ Systematic anti-microbial agents in periodontal therapy. ➢ Local delivery of antibiotics. ➢ Local delivery of an antiseptic agent.	**2**
4	**Periodontal management of medically compromised patient.** ➢ Periodontal management of CVD patient. ➢ Periodontal management of DM patient. ➢ Periodontal management of Pregnant female patient. ➢ Periodontal management of pulmonary patient. ➢ Periodontal management of hematological/ coagulative disorders pt.	**3**
5	**Periodontal-endodontic continuum.** ➢ Biologic Effects of Pulpal Infection on Periodontal Tissues. ➢ Biologic Effects of Periodontal Infection on Dental Pulp. ➢ Differential Diagnosis of Pulpal and Periodontal Infection. ➢ Treatment Considerations of Endodontic-Periodontic Lesions.	**1**
6	**Periodontal Response to occlusal trauma.** ➢ Definition of Trauma from occlusion. ➢ Stages of tissue response to increased occlusal forces. ➢ Clinical and radiographic signs of trauma from occlusion. ➢ Treatment for TFO.	**1**
7	**Surgical phase of periodontal therapy; General principles.** ➢ Patient's preparation. ➢ Measures to prevent transmission of disease. ➢ Sedation & anesthesia. ➢ Tissue management. ➢ Post-operative instructions. ➢ Periodontal flaps and suturing teqniques.	**2**
8	**Gingival enlargement and its treatment** ➢ Classification of gingival enlargement. ➢ Scoring of gingival enlargement. ➢ Drug-associated gingival enlargement. ➢ Leukemic gingival enlargement. ➢ Gingival enlargement in pregnancy. ➢ Gingivectomy and gingivoplasty, indications, contraindications and techniques.	**1**
9	**Revision:**	**1**
10	**Flap Techniques for Pocket Therapy.** ➢ The modified widman flap. ➢ The undisplaced flap. ➢ The palatal flap. ➢ The apically displaced flap. ➢ Flaps for regenerative surgery. The papilla preservation flap.	**2**

11	**Regenerative Osseous Surgery;** ➢ Introduction. ➢ Periodontal flaps for regenerative therapy. ➢ Bone substitutes types. ➢ Guided tissue regeneration. ➢ Growth factors. ➢ Enamel Matrices Proteins. ➢ Root conditioning materials.	**3**
12	**Resective Osseous Surgery;** ➢ Definition. ➢ Aims. ➢ Indication. ➢ Contraindications. ➢ Surgical technique.	**1**
13	**Furcation: The Problem and its Management.** ➢ Furcation Involvement. ➢ Etiologic factors. ➢ Classification of furcation. ➢ Diagnosis of furcation. ➢ Treatment of furcation defects.	**1**
14	**Preparation of Periodontium for Restorative Dentistry.** ➢ Rationale for therapy. ➢ Biological width. ➢ Crown-Lengthening Procedures.	**1**
15	**Periodontal Plastics and Esthetic Surgery.** ➢ Problems Associated with Shallow Vestibule and techniques to solve. ➢ Problems Associated with Aberrant Frenum and techniques to solve. ➢ Problems Associated with attached gingiva and techniques to solve. ➢ Gingival recession. ➢ Management of gingival recession.	**2**
16	**Implant Dentistry:** ➢ Implant Dentistry: Introduction. ➢ Macrodesign and microdesign of dental implants. ➢ Implant tissue interface. ➢ Clinical consideration and diagnosis of implant case. ➢ Implant surgical procedures. ➢ Implant complications and failure. ➢ Maintenance of dental implants.	**2**
17	**Supportive periodontal therapy.** ➢ Maintenance phase of the treatment plan of periodontal disease. ➢ Supportive periodontal therapy.	**1**
18	**Revision**	**2**
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**		
K2.7	Recall the basic concepts of clinical features and management of different forms of periodontal diseases.	✓ Lecture. ✓ Clinical Session.	▪ Written exams. ▪ Clinical exam.
2	**Skills :**		
S3.13	Apply critical thinking to formulate treatment modalities of different forms of periodontal diseases.	✓ Lecture. ✓ Clinical Session.	▪ Written exams. ▪ Clinical exam. ▪ Assignments. ▪ Weekly assessment. ▪ Approved procedures documented in logbook.
S7.9	Demonstrate hand-eye coordination skills to make diagnosis and treatment plan of different forms of periodontal diseases with different non-surgical treatment modalities including sub-gingival scaling.		
3	**Competence:**		
C3.9	Demonstrate effective communication skills with the patients, their families and all members of the health team including documentation.	✓ Clinical Session.	▪ 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 – Michaei G Newmann, Carrenza, Hentry Takei, Perry R, Klokkevold- Elsevier - Recent Edition.
Essential References Materials	✓ Text book of Clinical Periodontology and implant dentistry - Jan **LINDHE**, Nikllaus P, Lang And Thorkild, Karring – Blackwell - Recent Edition.
Electronic Materials	✓ Website of American Academy of Periodontology.
Other Learning Materials	✓ Articles prepared by course director. ✓ Video for supra-gingival scaling technique. ✓ Presentations.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, clinics, etc.)	✓ Lecture room suitable for 30 students ✓ Fully equipped clinic for clinical sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	✓ 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)	✓ Dental chairs ✓ Periodontal instruments

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students.	✓ Course Evaluation Survey. ✓ Quality of Exam Survey.
	HODs	✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting. ✓ Grade Analysis. ✓ SCHS graduates results.
	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.

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**