

1	Course title	<i>Periodontology Theory - 1</i>
2	Course number	<i>1301433</i>
3	<i>Credit hours (theory, practical)</i>	<i>Two credit hours (theory, one credit hour per semester)</i>
	<i>Contact hours (theory, practical)</i>	<i>One hour/week</i>
4	Prerequisites/corequisites	<i>None</i>
5	Program title	<i>Doctor of Dental Surgery (DDS)</i>
6	Program code	<i>NA</i>
7	Awarding institution	<i>The University of Jordan</i>
8	Faculty	<i>Faculty of Dentistry</i>
9	Department	<i>Department of Oral & Maxillofacial Surgery, Oral Medicine, & Periodontology</i>
10	Level of course	<i>Bachelor</i>
11	Year of study and semester (s)	<i>Fourth year, First & second semesters</i>
12	Final Qualification	<i>DDS</i>
13	Other department (s) involved in teaching the course	<i>None</i>
14	Language of Instruction	<i>English</i>
15	Date of production/revision	<i>14 September 2019</i>

16. Course Coordinator:

Name: Dr. Ahmad Abdel Salam Hamdan
Office Number: Faculty of Dentistry, level -1
Office Phone: 23593, 23554, 23639
E-mail: ahmad.hamdan@ju.edu.jo
Office Hours: Sunday 8-10 am

17. Other instructors:

Name	Office Number	Office Phone	e-mail	Office Hours
Dr. Murad Shaqman	Faculty of Rehabilitation Sciences, level 4		m.shaqman@ju.edu.jo	
Dr. Omar Karadsheh			O_karadsheh@yahoo.com	
Dr. Nicola Barghout	Faculty of Dentistry, level 2		nicolabarghout@hotmail.com	

18. Course Description:

This course provides the student with basics and knowledge related to the anatomy and biology of periodontium. It emphasizes the important role of plaque and certain systemic diseases in the pathogenesis of periodontal diseases.

19. Course aims and outcomes:***A- Aims:***

This course aims to provide the students with knowledge about the basics of periodontology, the different periodontal diseases and conditions that can be encountered, the pathogenesis of the periodontal diseases and the basics of their epidemiology and risk factors. In addition, the course aims to provide the students with the required knowledge to be able to identify different periodontal diseases, their prognosis, treatment planning and treatment using different non-surgical methods and techniques.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

- 1. Develop a wide range of back-ground knowledge and understanding of the basic and pre-disposing factors of Periodontal Disease and their management.**
- 2. Have in depth knowledge and skills for the use of manual instrumentations and power driven scalers.**
- 3. Apply the knowledge of the related dental sciences (dental anatomy, occlusion, histopathology and oral medicine) within the context of Periodontology.**
- 4. Understand and relate the material and design of manual and power driven scalers and their effectiveness in the treatment of related Periodontal Disease.**
- 5. Classify different Periodontal Diseases according to their aggression and relate the direct etiology of each specific disease and their management.**
- 6. Acknowledge the new classification of Periodontal Diseases and the research brought about by the understanding of the cause and effect of such a disease.**
- 7. Understand and appreciate the clinical and laboratory research in the development of new chemotherapeutic agents (local drug delivery) as a non-surgical modality of treatment.**
- 8. Appreciate the understanding of the treatment of Periodontal Disease in relation to Restorative Dentistry, and the impact of faulty dentistry on Periodontium.**
- 9. Understand the wound healing process in the periodontal settings and the influence of the environment on the complexity of periodontal wound healing.**
- 10. Understand the basic principles of periodontal surgery and surgical management of periodontal tissues.**

20. Topic Outline and Schedule:

<i>Topic</i>	<i>Week / Date</i>	<i>Instructor</i>	<i>Achieved ILOs</i>	<i>Evaluation Methods</i>	<i>Ref.</i>
<i>First semester</i>					
Functional Anatomy & Histology of the Periodontium <ul style="list-style-type: none"> - Clinical Features - Microscopic Features - Correlation between Clinical & Microscopic Features - Blood Supply, Innervation, and Lymphatic Drainage of the Periodontium 	<i>Week 1 26.09.2019</i>	<i>Dr. Hamdan</i>	<i>1, 3</i>	<i>22 (1, 2)</i>	<i>25</i>
Classification of periodontal diseases <ul style="list-style-type: none"> - The need for a classification - Historical Development of Classification Systems - Classification of Periodontal Diseases and Conditions 	<i>Week 2 03.10.2019</i>	<i>Dr. Karadsheh</i>	<i>1, 5, 6,</i>	<i>22 (1, 2)</i>	<i>25</i>
Epidemiology of Periodontal Disease <ul style="list-style-type: none"> - Prevalence & Incidence of Periodontal Diseases - Examination vs Evaluation methods (Indices) - Risk Factors for Periodontal Diseases - Natural History of Periodontal Disease 	<i>Week 3 10.10.2019</i>	<i>Dr. Shaqman</i>	<i>1, 5</i>	<i>22 (1, 2)</i>	<i>25</i>
Periodontal Microbiology <ul style="list-style-type: none"> - Dental Plaque - Association of Periodontal Microorganisms with Periodontal Diseases (Bacterial Complexes) - Criteria for Identification of Periodontal Pathogens 	<i>Week 4 17.10.2019</i>	<i>Dr. Barghout</i>	<i>1, 5</i>	<i>22 (1, 2)</i>	<i>25</i>
Host – Immune Response in Periodontal Diseases	<i>Week 5 24.10.2019</i>	<i>Dr. Shaqman</i>	<i>1, 3, 5</i>	<i>22 (1, 2)</i>	<i>25</i>

<ul style="list-style-type: none"> - Microbiologic Aspects of Microbial-Host Interactions - Immunologic Aspects of the Microbial Interactions with the Host - Microbiology and Immunology in Health and Disease 					
<p>Calculus and Other Local Factors</p> <ul style="list-style-type: none"> - Dental Calculus - Iatrogenic Factors - Malocclusion - Periodontal Complications Associated with Orthodontic Therapy - Extraction of Impacted Third Molars - Habits & Self-Inflicted Injuries - Tobacco Use - Radiation Therapy 	<p>Week 6 31.10.2019</p>	<p>Dr. Shaqman</p>	<p>1, 3, 5</p>	<p>22 (1, 2)</p>	<p>25</p>
<p>Systemic & Environmental Factors</p> <ul style="list-style-type: none"> - Diabetes Mellitus - Tobacco Smoking - Obesity & Nutrition - Osteoporosis & Osteopenia - Stress 	<p>Week 7 07.11.2019</p>	<p>Dr. Hamdan</p>	<p>1, 3, 5</p>	<p>22 (1, 2)</p>	<p>25</p>
<p>Gingivitis</p> <ul style="list-style-type: none"> - Classification Criteria for Gingival Diseases - Plaque-induced Gingivitis on Healthy Periodontium - Plaque-induced Gingivitis on Reduced Periodontium - Gingivitis Associated with Dental Biofilm Alone - Gingivitis Mediated by Systemic or Local Risk Factors - Drug-influenced Gingival 	<p>Week 8 14.11.2019</p>	<p>Dr. Barghout</p>	<p>1, 3, 5</p>	<p>22 (1, 2)</p>	<p>25</p>

enlargement					
Periodontitis I - Classification of Periodontitis - Pathogenesis of Periodontitis	Week 9 21.11.2019	Dr. Karadsheh	1, 3, 5, 6	22 (1, 2)	25
Periodontitis II (Periodontal Pocket) - Clinical Features - Pathogenesis - Histological Features - Types of Periodontal Pockets - Bony Defects	Week 10 28.11.2019	Dr. Karadsheh	1, 3, 5, 6	22 (1, 2)	25
Acute Periodontal Conditions (Abscesses + Endodontic-Periodontal Lesions) Abscesses of The Periodontium - Classification - Prevalence - Pathogenesis - Microbiology - Diagnosis - Treatment - Complications Endodontic – Periodontal Lesions - Effect of Pulp Pathology on Periodontal Tissues - Effect of Periodontal Diseases on Pulp Condition	Week 11 05.12.2019	Dr. Karadsheh	1, 3, 5, 6	22 (1, 2)	25
Examination, Charting & Diagnosis of Periodontal Diseases	Week 12 12.12.2019	Dr. Shaqman	1, 3, 5, 6	22 (1, 2)	25
Treatment Planning & Prognosis of Periodontal Diseases	Week 13 19.12.2019	Dr. Shaqman	1, 3, 5, 6	22 (1, 2)	25
Principles of Instrumentation	Week 14 26.12.2019	Dr. Karadsheh	2, 4, 8	22 (1, 2)	25
Second semester					

Plaque Control Methods	<i>Week 1 TBD</i>	<i>Dr. Barghout</i>	<i>2, 4, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Non-surgical Management I	<i>Week 2 TBD</i>	<i>Dr. Shaqman</i>	<i>2, 4, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Non-Surgical Management II (Cases Discussion)	<i>Week 3 TBD</i>	<i>Dr. Shaqman</i>	<i>2, 4, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Periodontal Healing & Host Response	<i>Week 4 TBD</i>	<i>Dr. Hamdan</i>	<i>9</i>	<i>22 (1, 2)</i>	<i>25</i>
Periodontal maintenance	<i>Week 5 TBD</i>	<i>Dr. Hamdan</i>	<i>2, 4, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Host modulation, antimicrobials & antiseptics in periodontal diseases	<i>Week 6 TBD</i>	<i>Dr. Barghout</i>	<i>7</i>	<i>22 (1, 2)</i>	<i>25</i>
Classification and treatment of furcation involvement	<i>week 7 TBD</i>	<i>Dr. Shaqman</i>	<i>1, 3, 5, 6, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Occlusal Trauma – Classification & Treatment	<i>Week 8 TBD</i>	<i>Dr. Karadsheh</i>	<i>1, 3, 5, 6, 8</i>	<i>22 (1, 2)</i>	<i>25</i>
Periodontitis as a manifestation of systemic diseases	<i>Week 9 TBD</i>	<i>Dr. Karadsheh</i>	<i>1, 3, 5, 6</i>	<i>22 (1, 2)</i>	<i>25</i>
Gingival enlargement: etiology, clinical presentation and management	<i>Week 10 TBD</i>	<i>Dr. Barghout</i>	<i>1, 3, 5, 6</i>	<i>22 (1, 2)</i>	<i>25</i>
Necrotizing Periodontal Diseases + Non-Plaque Induced Gingival Diseases	<i>Week 11 TBD</i>	<i>Dr. Barghout</i>	<i>1, 3, 5, 6</i>	<i>22 (1, 2)</i>	<i>25</i>
Periodontal Medicine	<i>Week 12 TBD</i>	<i>Dr. Shaqman</i>	<i>1, 3, 5, 6</i>	<i>22 (1, 2)</i>	<i>25</i>
Principles of Surgery I	<i>Week 13 TBD</i>	<i>Dr. Hamdan</i>	<i>10</i>	<i>22 (1, 2)</i>	<i>25</i>
Principles of Surgery II	<i>Week 14 TBD</i>	<i>Dr. Hamdan</i>	<i>10</i>	<i>22 (1, 2)</i>	<i>25</i>

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- 1- **Lectures:** 28 one-hour lecture over first and second semesters.
- 2- **Moodle:** e-learning through lecture notes and forum discussions.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

- 1- **First exam (7th-8th week of first semester):** MCQs or essays (25 points).
- 2- **Second exam (7th-8th week of second semester):** MCQs or essays (25 points).
- 3- **Final exam:** MCQs or essays (50 points).

23. Course Policies:

A- Attendance policies:

Lecture attendance is obligatory. The hand-out and recommended textbook are not comprehensive and additional material will be covered in lectures. You are responsible for all material covered in lectures and material covered in e-learning discussions. Students are not allowed to enter lecture room after 5 minutes of its start. Marks are not awarded for attendance. Students are not allowed to attend final exam if they exceed the permitted percentage set in the UJ's regulations.

B- Absences from exams and handing in assignments on time:

The student will be allowed to set for a make-up exam (usually essay) if he/she did not attend the exam due to an acceptable excuse and the excuse was presented in due time as set in the UJ's regulations. If he/she did not attend an exam without an acceptable excuse, the student's mark for that exam will be zero. Contributions in e-learning forums are accepted if submitted 24 hours before time of final exam.

C- Health and safety procedures:

No special recommendations.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Cheating is considered an unacceptable behavior in exams and a reason for unsuccessful course result. Please refer for your *Student Guide* book for detailed regulations.

E- Grading policy:

Percentage marks are converted to letters. (A)/(A-) are usually given for top 10-15% of students. Percentage mark < 50 does not mean a mark of (D-) or (F).

F- Available university services that support achievement in the course:

Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Moodle e-learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of Dentistry. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

24. Required equipment:

None.

25. References:**A- Required book (s), assigned reading and audio-visuals:**

- 1- Clinical Periodontology (Hardcover). Eleventh edition, by Michael Newman, Henry Takei, Fermin A. Carranza.
- 2- Clinical Periodontology & Implant Dentistry. Sixth or Seventh edition, by Jan Lindhe, Niklaus Lang, Thorkild Karring.
- 3- Periodontics: Medicine, Surgery & Implants. First edition, by Louis Rose, Brian Mealy, Robert Genco.

B- Recommended books, materials, and media:

Some supplemental material will be provided by lecturers.

26. Additional information:**Expected workload:**

On average, you should expect to spend between 3 and 5 hours per week on this course.

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department
Assistant Dean for Quality Assurance
Course File