

**Review the performance of the higher education institution  
((review of the academic program))**

وصف المقرر

**This course description provides a summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he has made the most of the available learning opportunities and must be linked to the program description.**

<b>1. Educational Institution</b>	<b>Al-Zahrawi University College - Ministry of Higher Education and Scientific Research</b>
<b>2. University Department / Center</b>	<b>Department of Dentistry - Branch Periodontology -5<sup>th</sup>-stage</b>
<b>3. Course Name / Code</b>	<b>Periodontology-5<sup>th</sup>-stage-DEN11530</b>
<b>4. Programs in which it is included</b>	<b>Oral and dental health care programs</b>
<b>5. Available Forms of Attendance</b>	<b>Student attendance at lectures, clinics and seminars throughout the academic year</b>
<b>6. Semester / Year</b>	<b>First and Second Semesters 2025-2024</b>
<b>7. Total Number of Study Hours</b>	<b>140-hours of theory - 280 hours of practical</b>
<b>8. Date of preparing this description</b>	<b>25-5-2025</b>
<b>9. Course Objectives:</b> <b>1- The main objective of the branch is to increase health awareness of oral and dental health among citizens and to treat patients suffering from gum diseases by preparing a health cadre of students who will carry out this role after their graduation and serve in health centers spread throughout Iraq.</b>  <b>-2- The educational aspect: by giving lectures, holding scientific seminars and symposia, and performing advanced surgical operations for the purpose of training students on this.</b>	

**3--The therapeutic and preventive aspect: The branch currently covers the treatment and follow-up of all medical cases related to gum and periodontal diseases referred to the college, in addition to the preventive aspect related to this topic.**

**1. Learning Outcomes, Teaching and Learning Methods, and Evaluation**

**A. Knowledge and Understanding**

**B. Subject-Specific Skills**

**Teaching and Learning Methods**

Using various modern devices and equipment to deliver the material to the student as needed, as follows:

- Data show projector

- LCD

Electronic screens

Smart boards

Live broadcast via digital cameras

**C. Evaluation Methods**

- Practical, short, semester, midterm, and final exams.

- Grades are distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.

## **D. Thinking Skills**

### **Teaching and Learning Methods**

**Using various modern devices and equipment to deliver material to students as needed, as follows: Data show projector**

**- LCD**

**Electronic screens**

**Smart boards**

**Live broadcast via digital cameras**

### **Evaluation Methods**

**-Distributing the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.**

## **e. General and Transferable Skills**

.

11. Course Structure					
Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	1	Periodontal diseases and surgery	Periodontal examination and diagnosis - Probing depth Probing around implants Bleeding on probing	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
2	1	Periodontal diseases and surgery	Bone loss and patterns of bone destruction - Bone destruction caused by the extension of gingival inflammation	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
3	1	Periodontal diseases and surgery	-Radiographic aids in the diagnosis of periodontal disease - Radiographic techniques -Bone Loss	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
4	1	Periodontal diseases and surgery	Advanced diagnosis . Foster-Miller probe , Florida Probe® Toronto Automated probe Immunofluorescent microscopy - Advances in characterizing host response	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
5	1	Periodontal diseases and surgery	Periodontal response to external forces  Occlusion Trauma from occlusion .Pathologic tooth migration	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
6	1	Periodontal diseases and surgery	Immunology Innate immunity • Lysozyme ii- Gingival epithelial barrier iii- Gingival crevicular fluid o Pathogen recognition	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams

7	1	Periodontal diseases and surgery	Immunology - Adaptive immunity o Characteristics o Cellular elements o Cellular immunity to dental plaque o Osteo-immunology in periodontal diseases	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
8	1	Periodontal diseases and surgery	Tooth mobility - Introduction - Types Directions of movement Sign & symptoms Treatment	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
9	1	Periodontal diseases and surgery	Epidemiology of periodontal diseases – Introduction - Epidemiologic study designs: Randomized controlled trials	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
10	1	Periodontal diseases and surgery	Determination of prognosis o Anatomic factors i- Short, tapered roots ii- Cervical enamel projections iii- Enamel pearls iv- Bifurcation ridges	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
11	1	Periodontal diseases and surgery	Interrelationships of periodontal disease and therapy with other dental disciplines Restorative interrelationships-	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
12	1	Periodontal diseases and surgery	Periodontal surgery. General principles - o Surgical curettes and sickles o Periosteal elevators o Surgical chisels o	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
13	1	Periodontal diseases and surgery	Sonic and ultrasonic instrumentation and irrigation - Power-driven instruments Special considerations - Root surface roughness - Aerosol production	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams

14	1	Periodontal diseases and surgery	Gingivectomy Gingivectomy: Surgical procedure - Gingivoplasty - Periodontal dressings - Postoperative instructions - Management of postoperative pain	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
15	1	Periodontal diseases and surgery	Flap surgery - - Flap techniques: Modified Widman flap o Undisplaced flap o Apically displaced flap o Distal wedge flap o Papilla preservation flap	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
16	1	Periodontal diseases and surgery	-Mucogingival and aesthetic surgery -Techniques to deepen the vestibule Frenectomy and frenotomy- Procedure	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
17	1	Periodontal diseases and surgery	-Furcation involvement and treatment Introduction - Anatomy of furcation area Diagnosis Differential diagnosis- Pulpal pathologies -	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
18	1	Periodontal diseases and surgery	Laser therapy - Laser physics and biologic interactions - Laser Types Aesthetic and pre-prosthetic surgeries Nonsurgical periodontal therapy	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
19	1	Periodontal diseases and surgery	Locally delivered, controlled-release antimicrobials Types: Chlorhexidine-based products: i- Chlorhexidine chip ii- PerioCol-CG iii-Chlo-Site o Doxycycline-based products:	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
20	1	Periodontal diseases and surgery	Management of medically compromised patients - Cardiovascular diseases - Renal disease - Chemotherapy	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams

21	1	Periodontal diseases and surgery Periodontal diseases and surgery	Management of medically compromised patients - Endocrine/metabolic disorders Pregnancy - Hemorrhagic disorders Blood dyscrasias	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
22	1	Periodontal diseases and surgery	Gingival crevicular fluid (GCF) - Introduction - Function - Composition: o - Methods of collection - Drugs in GCF	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
23	1	Periodontal diseases and surgery	Dentin hypersensitivity - Introduction - Epidemiology - Etiology - Theories of dentin hypersensitivity - Diagnosis - Measurement methods -	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
24	1	Periodontal diseases and surgery	Tissue regeneration. General principles Outcomes and definitions Local factors o Systemic factors - Periodontal wound healing	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
25	1	Periodontal diseases and surgery	Regenerative periodontal therapy - - Role of epithelium in periodontal wound healing -:	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams

26	1	Periodontal diseases and surgery	Reconstructive surgical techniques: o Non- bone graft associated new attachment: i- Principles ii- Procedure	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
27	1	Periodontal diseases and surgery Periodontal diseases and surgery	Advanced regenerative approaches - Enamel matrix Derivatives - Acellular dermal matrix allograft - therapy for periodontal regeneration -	Theoretical lectures using PDF and PowerPoint Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
28	1	Periodontal diseases and surgery	Oral implantology Peri-implant anatomy and Peri-implant diseases classification - Introduction .Clinical Comparison of Teeth and Implants - Peri-implant health - Peri-implant mucositis:	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
29	1	Periodontal diseases and surgery	Oral implantology Implant-related complications and failure - Definitions of implant survival and success - Types and prevalence of implant complications - Surgical complications	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams
30	1	Periodontal diseases and surgery	Oral implantology Supportive implant treatment - Rationale for supportive implant treatment - Examination of implants - Assessment of peri-implant health o Evaluation of implant osseointegration o	Theoretical lectures using PDF and PowerPoint	Midterm Exams Midterm Exams Final Exams



12. Infrastructure	
Required Readings:	<b>References:</b> <b>Sources: Carnza's Clinical Periodontology</b> <b>Publisher: Elsevier</b> <b>Edition: 13</b> <b>Year: 2019</b> <b>Linda's Clinical Periodontology and -1</b> <b>Implant Dentistry</b> <b>Publisher: Wiley Blackwell</b> <b>Edition: 6</b> <b>Year: 2015</b>
Special Requirements (Workshops, Journals, Software, Websites):	<b>E Websites lectronic Websites:</b>  <b>Websites for priodontolog.</b>
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	<b>Organizing workshops and courses for graduates:</b>

13.	
Prerequisites	
Minimum Number of Students	
Maximum Number of Students	

**Name of the Instructor:**

**Israa Hadi Hashim Almosawi**  
**Periodontology 5<sup>th</sup>- stage**