



## Information about the subject

**Degree:** Bachelor of Science Degree in Dentistry

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 480310 **Name:** Periodontics I

**Credits:** 6,00 **ECTS Year:** 3 **Semester:** 2

**Module:** Module 4: Dental Pathology and Therapeutics

**Subject Matter:** DENTAL PATHOLOGY **Type:** Compulsory

**Field of knowledge:** Health Sciences

**Department:** Dentistry

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** English, Spanish

### Lecturer/-s:

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Universidad  
**Católica de  
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## Course guide

Year 2025/2026  
480310 - Periodontics I

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## Module organization

### Module 4: Dental Pathology and Therapeutics

Subject Matter	ECTS	Subject	ECTS	Year/semester
DENTAL THERAPY	66,00	Cosmetic Dentistry	6,00	4/2
		Orthodontics I	6,00	3/2
		Orthodontics II	6,00	4/1
		Paediatric Dentistry I	6,00	4/1
		Paediatric Dentistry II	6,00	4/2
		Pathology and Dental Therapeutics I	6,00	3/1
		Pathology and Dental Therapeutics II	6,00	3/2
		Pathology and Dental Therapeutics III	6,00	4/1
		Prosthodontics I	6,00	3/1
		Prosthodontics II	6,00	3/2
		Prosthodontics III	6,00	4/1
DENTAL PATHOLOGY	60,00	Dental Traumatology	6,00	5/1
		Dentistry in Special Patients	6,00	4/2
		Emergencies in Dentistry	6,00	5/2
		Legal and Forensic Dentistry	6,00	5/1



### DENTAL PATHOLOGY

Oral Medicine	6,00	3/1
Oral Surgery I	6,00	4/1
Oral Surgery II - Implantology	6,00	5/2
Pathology of the Temporo-Mandibular Joint and Orofacial Pain	6,00	4/2
Periodontics I	6,00	3/2
Periodontics II	6,00	4/2

## Recommended knowledge

The aim of this course is for the student to be able to:

- Understand the anatomical and histological relationships of the periodontium.
- Identify the etiological factors of periodontal diseases and their relationship with environmental factors.
- Understand the microbiology and describe the pathogenesis of periodontal diseases.
- Know and identify the periodontal structures at the radiological level.
- Establish periodontal treatment plans.
- Have knowledge of and be able to provide basic treatment for periodontal diseases.



## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Knows the periodontal anatomical-histological relationships.
- R2 Knows about clinical exploration and periodontogram.
- R3 Knows and identifies the periodontal structures at a radiological level.
- R4 Identifies the etiological factors of periodontal diseases.
- R5 Knows the microbiology and describes the pathogenesis of periodontal diseases.
- R6 Knows the classification of periodontal diseases.
- R7 Knows about the exploration of periodontal tissues and preparation of a periodontogram, a specific card with the periodontal records necessary for a correct diagnosis and evaluation of the evolution of the disease.
- R8 Performs periodontal radiological studies and their importance in the diagnosis and prognosis in the evolution of periodontal disease.
- R9 Identifies and diagnoses the different periodontal diseases.
- R10 Establishes periodontal treatment plans.
- R11 Proves knowledge and basic treatment of periodontal diseases.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

GENERAL	Weighting			
	1	2	3	4
CG1 I aCapacity for analysis and synthesis				X
CG2 I bOrganizational and planning skills				X
SPECIFIC	Weighting			
	1	2	3	4
CE A 7 Promote autonomous learning of new knowledge and techniques, as well as motivation for quality.			X	
CE A 9 Understand the importance of maintaining and using records with patient information for subsequent analysis, preserving the confidentiality of the data.				X
CE C 2IObtain and prepare a medical history containing all relevant information.				X
CE C 2Knowing how to perform a complete oral examination, including the appropriate radiographic and complementary examination tests, as well as obtaining appropriate clinical references.				X
CE C 2Be able to make an initial diagnostic judgement and establish a reasoned diagnostic strategy, being competent in the recognition of situations requiring urgent dental care.			X	
CE C 2Establish the diagnosis, prognosis and adequate therapeutic planning in all clinical areas of dentistry, being competent in the diagnosis, prognosis and elaboration of the dental treatment plan of the patient requiring special care, including medically compromised patients (such as diabetics, hypertensive, immunosuppressed, anticoagulated, among others) and patients with disabilities.			X	
CE C 2Recognize life-threatening situations and know how to perform basic life support maneuvers.			X	



CE D 2	Know and apply the basic treatment of the most common oral pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimum invasion and on a global and integrated approach to oral treatment.				X
CE D 2	Know how to plan and carry out multidisciplinary, sequential and integrated dental treatments of limited complexity in patients of all ages and conditions and patients requiring special care.				X
CE D 2	Plan and propose the appropriate preventive measures for each clinical situation.				X
CE D 2	Acquire clinical experience under proper supervision.				X
CE E 3	Recognise the role of the dentist in actions to prevent and protect against oral diseases, as well as in the maintenance and promotion of health, both at individual and community level.				X

TRANSVERSAL		Weighting			
		1	2	3	4
1. a.	Analysis and synthesis skills				X
1. b.	Organizational and planning capacity				X
1. c.	Oral and written communication in the native language.			X	
1. d.	Knowledge of a foreign language		X		
1. e.	Computer skills				X
1. f.	Information management capacity				X
1. g.	Problem solving				X
1. h.	Decision making			X	
2. i.	Teamwork			X	
2. j.	Multidisciplinary teamwork				X



2. k.	Work in an international context			X	
2. l.	Interpersonal skills				X
2. m.	Recognition of diversity and multiculturalism				X
2. n.	Critical Reasoning			X	
2. o.	Ethical commitment				X
3. p.	Autonomous learning			X	
3. q.	Adaptation to new situations				X
3. r.	Creativity			X	
3. s.	Leadership		X		
3. t.	Knowledge of other cultures and customs		X		
3. u.	Initiative and entrepreneurship		X		
3. v.	Motivation for quality				X
3. w.	Sensitivity to environmental and socio-health issues		X		





## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	50,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	20,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	5,00%	ASSIGNMENTS: The student, ether individually or in a group, develops a theme which reviews or researches, and he/she presents it, in writing, for assessment by the teacher.
	25,00%	PRACTICAL EXAM: The student carries out a test in which he/she must show by means of practical application the acquisition of certain knowledge. For example, histological or anatomopathological diagnoses, interpretation of images or diagnostic tests.

### Observations

Attendance criteria for practical sessions: 1. Attendance at the 14 scheduled practical sessions is mandatory, as it is part of continuous assessment. 2. A student's justified absence from laboratory practical sessions is only allowed for 2 sessions, with the same reasons outlined by UCV statutes for rescheduling an exam. Therefore, absences from practical sessions can only be justified. It is necessary to send the justification to the responsible professor's email no later than 15 days after the absence. 3. If a student misses more than 2 justified practical sessions, they will not be allowed to take the first exam session. If a student misses 3 or more justified practical sessions, they will not be allowed to take the second exam session and will have to enroll in the next academic year. 4. The student is required to comply with UCV clinic regulations (both in the laboratory and in the office), regarding: clothing, care of the facilities, and behavior. Failure to comply will result in a penalty/expulsion from the practice. 5. The student must have the necessary language skills to carry out the practices.

Materials that the student must bring: It is mandatory to bring all materials to each laboratory session. The lack or absence of any material will be evaluated negatively. 1. Clogs, lab coat, and UCV clinical scrubs (UCV store) 2. 2 examination kits (flat mirrors, not 5, box of 12 units;



metal-handled mirror; double-ended exploration probe; and forceps with/without teeth) 3. Transparent protective glasses or face shield 4. Periodontal probe (not OMS type): preferably color-coded PCP-12 periodontal probe, 1 unit, e.g., ref 600-5389. 5. Nabers probe, e.g., ref 9273 - Hu-Friedy 6. Hu-Friedy Silver Line universal curettes: 4r/4l, 13/14 7. Hu-Friedy Silver Line Gracey curettes: 5/6, 7/8, 11/12, 13/14 8. Arkansas sharpening stone No. 4 flat (ss4, Hu-Friedy) 9. Sharpening oil Sharpen-EZ (Hu-Friedy), e.g., ref 600-5390 10. Radiographic positioning rings (conventional X-ray) \*one pack for every 2 students, for vertical fins, front and rear (Bader 11/018) or (Dentsply Rinn) 11. Pack of dental X-ray films (manual development) 12. Practice notebook 13. Blue and red pen. 14. White glue 15. Sawdust

Subject evaluation criteria: To take both the practical and theoretical exams, it is necessary to submit the work done in practical sessions and have passed it with a minimum grade of 5. If the work is not submitted or passed, the student will have to take the exam in the second session. The practical exam consists of 2 parts, oral and written. It is necessary to pass both parts with a 5 to pass the practical exam. If the student has attended practical sessions but does not pass their continuous assessment or the practical exam, they will not be allowed to take the theoretical exam in the first session and will have to complete an assignment that will be given to the student individually. This assignment will grant the student access to the second session. The theoretical exam is multiple choice, consisting of 60 questions with 5 answers per question. Each incorrect answer deducts 0.33 points. A grade of 5 is required to pass the theoretical exam.

Minimum requirements: To pass the course, the student must meet the following minimum requirements:

1. Demonstrate the skills the student has acquired in the laboratory.
2. Demonstrate the student's ability to treat real patients by developing a diagnosis, prognosis, treatment plan, and treatment (under the supervision of a professor).
3. Pass the exams taken. It is essential to pass the multiple-choice exam with a 5 in order to include it in the overall grade with the other components of the course.

SP Group (Suspended from previous calls): In case the student has passed the practicals in previous courses with a minimum grade of 5, it is not necessary to retake the course practicals, as the grade obtained in the laboratory is retained. Criteria for awarding honors: According to the regulations governing the evaluation and grading of the course, the mention of "Honors" may be awarded to the best students who must have obtained a minimum grade of 9. If circumstances require, a special test may be established to determine those students deserving of honors, taking into account the 5% limitation of enrolled students. In second and subsequent calls, only the honors that could remain after the first call may be awarded.

CRITERIA FOR AWARDING HONORS: In accordance with the regulations governing the evaluation and grading of the course in force at UCV, the mention of "Honors" may be awarded to students who have obtained a grade equal to or higher than 9.0. The number of "Honors" awards may not exceed five percent of the students enrolled in the group in the corresponding academic year, except when the number of enrolled students is fewer than 20, in which case only one "Honors" award may be granted. Exceptionally, honors may be assigned across different groups of the same course on a global basis. However, the total number of honors to be awarded will be the same as if



they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding a "Honors Grade" will be carried out according to the criteria established by the teacher responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide. In this subject, the possibility of a single assessment is not considered, as the mandatory completion of practical activities with active student participation is required.

THE STUDENT IS OBLIGATED TO COMPLY WITH THE REGULATIONS OF THE UCV CLINICS (BOTH IN THE LABORATORY AND THE DENTAL OFFICE), REGARDING: ATTIRE (UCV SCRUBS, SANITARY FOOTWEAR, AND SURGICAL CAP), CARE OF THE FACILITIES, AND BEHAVIOR. FAILURE TO COMPLY WILL RESULT IN A PENALTY/EXPULSION FROM THE PRACTICE.

### MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- |    |   |
|----|---|
| M1 | Lecture.<br>Problem Solving.<br>Explanation of contents by the teacher.<br>Explanation of knowledge and skills.               |
| M2 | Practical basic sciences laboratory sessions, practical simulation laboratory sessions, virtual hospital and dissecting room. |
| M3 | Problem and case solving.<br>Social action activities.  |



- M4 Group work with research, discussion and filtering information about the degree subjects.
- M6 Discussion and problem solving.
- M8 Oral presentations by students.
- M9 Group work: group work sessions supervised by the teacher.  
Knowledge building through interaction and activity of students.
- M10 Carrying out bibliographic reviews and practical work experience dissertations.
- M11 Practical in-person classes in clinics linked to the university, where the student will carry out different treatments under direct supervision from the assigned tutor.
- M12 Seminars, supervised monographic classes with shared participation.
- M13 Personal preparation of written texts, essays, problem solving, seminars.
- M15 Personalised Attention. Period of instruction and/or guidance carried out by a tutor with the aim of analysing with the student his/her work, activities and evolution in learning of subjects.



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
THEORY CLASS M1	R1, R2, R3, R4, R5, R6	36,00	1,44
TUTORING M3, M15	R1, R2, R3, R4, R5, R6	2,00	0,08
EVALUATION M3	R1, R2, R3, R4, R5, R6	2,00	0,08
PRACTICAL CLASS M2	R2, R3	20,00	0,80
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M10, M13	R1, R2, R3, R4, R5, R6	46,00	1,84
GROUP WORK M4, M9, M10	R1, R2, R3, R4, R5, R6	44,00	1,76
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
BLOCK I.- INTRODUCTION TO PERIODONTICS	Topic 1. Introduction: evaluation system Topic 2. Periodontal anatomy Topic 3. Periodontal histology
BLOCK II.- PERIODONTAL PATHOLOGY	Topic 4. Etiology I. Bacterial plaque and calculus Topic 5. Etiology II: Microbiology of periodontal diseases Topic 6. Pathogenesis of periodontal diseases Topic 7. Epidemiology of periodontal diseases
BLOCK III.- CLINICAL EXAMINATION	Topic 8. Classification of periodontal diseases Topic 9. Clinical examination and laboratory tests Topic 10. Radiographic examination Topic 11. Prognosis and periodontal treatment plan
BLOCK IV.- BASIC PERIODONTAL TREATMENT	Topic 12. Non-surgical periodontal treatment I: Mechanical and chemical control Topic 13. Non-surgical periodontal treatment II
SEMINARS	SEMINAR A: Periodontal and General Health SEMINAR B: Interdisciplinary Periodontics 13



## Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I.- INTRODUCTION TO PERIODONTICS	2,00	4,00
BLOCK II.- PERIODONTAL PATHOLOGY	6,00	12,00
BLOCK III.- CLINICAL EXAMINATION	11,00	22,00
BLOCK IV.- BASIC PERIODONTAL TREATMENT	9,00	18,00
SEMINARS	2,00	4,00

## References

Jill Gehrig, Rebecca Sroda, Darlene Saccuzzo (2016) Fundamentos de la instrumentación periodontal  
NP Lang, T Berglundh, WV Giannobile, M Sanz. (2021) Implantes dental y periodoncia clínica  
Newman M, Takei H, Klokkevold P, Carranza F. (2014) Periodontología Clínica de Carranza. 11ª edición. Caracas: Amolca  
Newman M, Carranza. (2023) Periodontología clínica esencial. Elsevier