



## 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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## 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

Before taking Periodontics I subject, it is recommended to have the following knowledge:

- Oral anatomy
- Oral hygiene
- Radiology
- Basic instruments
- Teamwork



## 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

#### Internship attendance criteria:

1. Attendance at the 14 established practices is mandatory.
2. Absence is only allowed for two laboratory practices, as long as they are justified by the reasons established by the UCV statutes for changing the exam date.
3. In the event that the student fails two or more practices without justification, they will lose their right to take both the theoretical and practical exam and must enroll in the subject in the following course.
4. In the event that the student has completed their attendance at practices but does not pass the continuous evaluation of the same or the practical exam, he will not be able to take the theoretical exam in the first call and must do a job that will be indicated to the student from individually.
5. This work will give the student access to the second call.
6. The student has the obligation to comply with the regulations of ucv clinics (both in the laboratory and in the office), in terms of: clothing, care of the facilities, and behavior, non-compliance with them will result in a sanction / expulsion from the practice.
7. The student must have the necessary language skills to care for patients in clinical practices.





8. The evaluation in the laboratory practices is continuous. Works, periodontograms, etc. carried out in them will be evaluated.

**Materials that the student must provide:**

It is mandatory to bring all the materials to each of the laboratory practices, unless otherwise indicated. The lack of any material will be evaluated negatively.

1. Clogs, gown and pajamas UCV clinic (UCV store).
2. Two examination kits (flat mirrors no. 5 box of 12 units, metallic mirror handle, double examination probe, and tweezers with/without teeth).
3. Transparent protective glasses or protection screen.
4. Periodontal probe (non-oms): preferably cp12 periodontal probe.
5. Nabers probe ex: ref 9273- hu-friedy.
6. Hu-friedy silver line universal curettes: 4r/4l, 13/14.
7. Hu-Friedy Gracey Silver Line Curettes: 5/6, 7/8, 11/12, 13/14.
8. Arkansas sharpening stone no4 flat (ss4. hu-friedy).
9. Sharpening oil. Sharpen-ez (sso-hu-friedy) ex: ref 600-5390
10. Radiographic parallelization rings (conventional radiography) \*one pack for every 2 students. for vertical, anterior and posterior fins (bader 11/018) or (dentisply rinn)
11. Pack of dental radiographic plates (manual radiography)
12. Sawdust and white tail
13. Practice notebook
14. Blue and red pen

**Minimum requirements:** To pass the subject, the student must meet the following minimum requirements: 1. Demonstrate the student's skills acquired in the laboratory. 2. Demonstrate the student's ability to treat real patients, developing a diagnosis, prognosis, treatment plan and treatment (under the supervision of a teacher). 3. Pass the exams taken. It is an essential requirement to pass the test type exam with a 5 to compute average with the rest of the sections of the subject.

**SP Group (Suspended from previous calls):** It is not necessary to retake the practices of the subject, since the grade obtained by the student previously in the laboratory practices is saved.

**Criteria for awarding honours:** Honours may be awarded to the best students, who must have obtained a minimum grade of 9. If circumstances so require, a special test may be established to determine those students deserving of honours, taking into account the limitation of 5% of the students enrolled. In second and subsequent calls, only the honors that could remain after the first call may be awarded.

**Development of the subject in second and successive registrations:** There will be a specific group for students who are not first enrollees if they exceed the occupancy limit of the classroom and a teacher in charge of that group. The teacher in charge of this group will carry out 6 follow-up and tutoring sessions of 2 hours each. The competences to acquire the skills and abilities of the subject will be carried out through all the practices foreseen for the subject. In each session the subject will be developed so that the work of the competences that each student needs to be able to overcome the subject will be reinforced.

The evaluation of contents and skills will be carried out in the exam set in the official calendar for this subject.



## 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.  
          Problem Solving.  
          Explanation of contents by the teacher.  
          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.  
          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	28,00	1,12
SEMINAR M12	R1, R2	4,00	0,16
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	26,00	1,04
<b>TOTAL</b>		<b>62,00</b>	<b>2,48</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M10, M13	R1, R2, R3, R4, R5, R6	45,00	1,80
GROUP WORK M4, M9, M10	R1, R2, R3, R4, R5, R6	43,00	1,72
<b>TOTAL</b>		<b>88,00</b>	<b>3,52</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
I INTRODUCTION TO PERIODONTOLOGY	Lesson 1. Introduction: Evaluation System Lesson 2. Periodontal Anatomy Lesson 3. Periodontal histology
II PERIODONTAL PATHOLOGY	Lesson 4. Etiology I: Dental Plaque and Tartar Lesson 5. Etiology II: Microbiology of Periodontal diseases Lesson 6. Pathogenicity of Periodontal Disease. Lesson 7. Epidemiology of Periodontal Diseases
III CLINICAL EXAMINATION	Lesson 8. Classification of Periodontal Diseases Lesson 9. Clinical Examination and Laboratory Tests Lesson 10. X-ray Examination Lesson 11. Prognosis and periodontal treatment plan
IV BASIC PERIODONTAL TREATMENT	Lesson 12. Non-Surgical Periodontal Treatment I: Mechanical and Chemical Control Lesson 13. Non-Surgical Periodontal Treatment II: Scaling and Root Planning
SEMINARS	SEMINAR A: Periodontal and General Health SEMINAR B: Interdisciplinary Periodontics



## Temporary organization of learning:

Block of content	Number of sessions	Hours
I INTRODUCTION TO PERIODONTOLOGY	2,00	4,00
II PERIODONTAL PATHOLOGY	6,00	12,00
III CLINICAL EXAMINATION	11,00	22,00
IV BASICAL PERIODONTAL TREATMENT	10,00	20,00
SEMINARS	2,00	4,00

## References

Jill Gehrig, Rebecca Sroda, Darlene Saccuzzo - Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation (2016)

NP Lang, T Berglundh, WV Giannobile, M Sanz. - Clinical Periodontology and Implant Dentistry (2021)

Newman M, Takei H, Klokkevoold P, Carranza F. (2014) Carranza's Clinical Periodontology. 11th edition. Caracas: Amolca

Newman M, Carranza. (2023) Essential of clinical periodontology. Elsevier