



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480408 **Name:** Pathology and Dental Therapeutics III

Credits: 6,00 **ECTS Year:** 4 **Semester:** 1

Module: Module 4: Dental Pathology and Therapeutics

Subject Matter: DENTAL THERAPY **Type:** Compulsory

Field of knowledge: Health Sciences

Department: -

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



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 The student is able to obtain and elaborate a clinical history.
- R2 Knows how to carry out an intra and extraoral clinical examination.
- R3 Knows the physical characteristics of teeth with great destruction of their structure and the means of reconstruction.
- R4 Knows the materials and techniques of retention in vital and non-vital teeth.
- R5 Discerns the difficulties in the reconstruction of proximal faces and contact points: matrices and wedges
- R6 The student is able to diagnose and treat the fissured tooth.
- R7 Knows the different specialized systems of mechanically assisted endodontics.
- R8 Distinguishes the prevention, diagnosis and treatment of procedural accidents in endodontics.
- R9 Manages the organization, design and structure of scientific communication.
- R10 The student proves to be competent in recognizing the complexity of reconstructing a tooth with a large destruction.
- R11 Knows the instruments to use in the restoration of teeth with great destruction of their crown.
- R12 The student proves to be competent in the knowledge of retention aids, both on vital and non-vital teeth.



- R13 The student proves to be competent in performing root canal treatment on uncomplicated monoradicular and multi-radicular teeth and in handling the specific instruments.
The student proves to be competent in performing therapeutic procedures aimed at preserving, establishing or restoring the shape, function and esthetics of teeth, as well as the viability of the dental pulp.
The student proves to be competent in recognizing the signs that treatment will be complex and in knowing how to take appropriate measures to deal with them.
To know the components of the stomatognathic system. Biomechanics and functionality.
- R14 The student proves to be competent in performing therapeutic procedures intended to preserve, establish or restore the shape, function and esthetics of the teeth, as well as the viability of the dental pulp.
- R15 The student proves to be competent in recognizing the signs that treatment will be complex and in knowing how to take appropriate measures to deal with them.



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 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 D 2Know 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 2Know 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 2Plan 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



Course guide

Year 2023/2024

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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
	25,00%	OPEN QUESTIONS: Written exam in which basic theory knowledge and the ability to relate, integrate and coherently express it in writing is assessed.
	25,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	5,00%	PRESENTATION: The student develops by means of an oral presentation, supported with audio-visual materials, a theme or topic given by the teacher. At the end of the presentation, the teacher or audience may ask questions.
	25,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	20,00%	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

THE STUDENT HAS THE OBLIGATION TO COMPLY WITH THE REGULATIONS OF UCV CLINICS (BOTH IN THE LABORATORY AND IN THE DENTAL OFFICE), REGARDING: DRESS, CARE OF THE FACILITIES AND BEHAVIOR, NON-COMPLIANCE WILL RESULT IN A SANCTION/EXPULSION FROM THE PRACTICE.

THE STUDENT MUST HAVE THE NECESSARY LANGUAGE SKILLS FOR THE CARE OF PATIENTS IN CLINICAL PRACTICES.

IN ORDER TO PASS THE SUBJECT IN THE FINAL GRADE OF THE EXAM, THE STUDENT HAS TO GET AT LEAST **5 POINTS BOTH** IN THE THEORETICAL PART AND IN THE PRACTICAL PART.

IMPORTANT: THE STUDENT MUST GET AT LEAST A 4 IN EACH OF THE TESTS TO BE AVERAGED, SO IF THE STUDENT GETS LESS THAN THAT SCORE IN ONE OF THEM, THEY



WILL NOT GET AN AVERAGE WITH THE REST OF THE TESTS AND WILL BE SUSPENDED.

THE **THEORETICAL EXAM** CONSISTS OF:

50 MULTIPLE CHOICE QUESTIONS WITH 1 CORRECT ANSWER OUT OF 5. EACH 4 UNANSWERED OR WRONG QUESTIONS, 1 GOOD QUESTION WILL BE DISCOUNTED.

. 2 SHORT-ANSWER QUESTIONS

THE **PRACTICAL PART** CONSISTS OF 20 MULTIPLE CHOICE QUESTIONS WITH NO NEGATIVE MARKING

PRACTICAL ASSISTANCE:

ATTENDANCE TO PRACTICES IS 100% MANDATORY.

PRACTICES WILL BE CARRIED OUT EVERY MONDAY MORNING (OR ASSIGNED DAY) IN ALTERNATE GROUPS. THE NUMBER OF PRACTICES WILL BE SIX EACH GROUP.

THE MAXIMUM NUMBER OF JUSTIFIED PRACTICES THAT CAN BE MISSED WILL BE 2

THE ABSENCES CAN ONLY BE JUSTIFIED, WITH THE SAME REASONS AS THE UCV

STATUTES FOR CHANGE OF THE EXAM DATE

IF THEY EXCEED THE MAXIMUM NUMBER OF JUSTIFIED ABSENCES ALLOWED, THEY MUST PRESENT DIRECTLY THE EXAM AT THE 2nd CALL UP TO A MAXIMUM OF 3. IF THEY EXCEED THE CAP FOR THE 2ND CALL OR THEY ARE NOT JUSTIFIED, THEY WILL HAVE TO TAKE THE ENTIRE SUBJECT AGAIN NEXT YEAR.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

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, M3, M4, M12, M15	R3, R4, R5, R9, R11, R12, R14, R15	14,00	0,56
PRACTICAL CLINICAL SESSION M3, M11	R1, R2, R3, R4, R5, R9, R10, R11, R12, R15	24,00	0,96
SEMINAR M3, M4, M6, M8, M9, M12, M13	R1, R3, R9	18,00	0,72
TUTORING M6, M13, M15	R2	2,00	0,08
EVALUATION M15	R1, R2, R3, R4, R5, R9, R10, R11, R12, R15	2,00	0,08
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M6, M8, M9, M13	R1, R2, R3, R7, R11	40,00	1,60
GROUP WORK M12, M13	R1, R2, R10, R11	50,00	2,00
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK I: INTRODUCTION	1.Presentation. Clinical session
BLOCK II: LARGE RESTORATIONS	2. Large restorations. Basic principles. 3. Auxiliary retention systems on vital and non-vital teeth. 4. General characteristics of direct and indirect restorations.
BLOCK III: SPECIALIZED ENDODONTIC TREATMENT	5. Cracked tooth syndrome. 6. Rotatory endodontic instrumentation. 7. Endodontic treatment in relation to systemic pathology. 8. Pulp therapy for primary teeth. 9. Endodontic emergencies. 10. Microbiological aspects of importance in endodontics. 11. Prevention, diagnosis and treatment of procedural accidents in endodontics. 12. Anatomical variations of importance in endodontics. 13. Specialized endodontic treatment of necrotic teeth with open apex



Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: INTRODUCTION	2,00	4,00
BLOCK II: LARGE RESTORATIONS	13,00	26,00
BLOCK III: SPECIALIZED ENDODONTIC TREATMENT	15,00	30,00

References

JAVIER GARCÍA BARBERO. Patología y Terapéutica Dental. 1ª Edición. Ed. Síntesis. Madrid.
BARRANCOS MOONEY, J-BARRANCOS, P (2008). Operatoria Dental. Integración clínica. 4ed. 3ª reimp. Ed Médica Panamericana. Buenos Aires.
KETTERL W (1994). Odontología conservadora. Cariología. Tratamiento mediante obturación. Ed. Salvat Barcelona.
NADAL-VALLDAURA A (1987). Patología dentaria. Ed Rondas. Barcelona.
MOUNT GJ. Atlas práctico de cementos de ionómero de vidrio. Ed. Salvat. Barcelona.
MOUNT GJ,-HUME WR. Conservación y restauración de la estructura dental. Ed Hacourt Brace. Madrid.
RIETHE, P. Profilaxis de la caries y tratamiento conservador. Ed Salvat. Barcelona.
URIBE J. Operatoria dental. Ed Avances medico-dentales. Madrid.
CANALDA C. Endodoncia. Técnicas clínicas y bases científicas.
KENNETH M. HARGREAVES, STEPHEN COHEN (2011). Cohen's pathways of the pulp. 10th Edintion. Ed. Elsevier. Missouri
LINDA GREENWALL (2017). Tooth whitening techniques. 2nd Edition. Ed. CRC Press. Boca Raton