



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480403 **Name:** Cosmetic Dentistry

Credits: 6,00 **ECTS Year:** 4 **Semester:** 2

Module: Module 4: Dental Pathology and Therapeutics

Subject Matter: DENTAL THERAPY **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:

484A	<u>Manuel Monterde Hernandez</u> (Responsible Lecturer)	manuel.monterde@ucv.es
	<u>Andres Fuente Huerta</u>	andres.fuente@ucv.es
	<u>Antonio Pallares Sabater</u>	antonio.pallares@ucv.es
	<u>Jorge Cantero Fabregat</u>	jorge.cantero@ucv.es
484GIQ	<u>Susana Muwaquet Rodriguez</u> (English Responsible Lecturer)	susana.muwaquet@ucv.es
	<u>Maria Romero Almela</u>	maria.romeroal@ucv.es



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 The student proves to be competent in performing therapeutic procedures aimed at preserving, establishing or restoring the form, function and aesthetics of the teeth, as well as the way of the dental pulp.
- R4 Knows the physical characteristics of teeth with great destruction of their structure and the means of reconstruction.
- R5 Knows the materials and techniques of retention in vital and non-vital teeth.
- R6 Discerns the difficulties in the reconstruction of proximal faces and contact points : matrices and wedges
- R7 The student is able to diagnose and treat the fissured tooth.
- 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.
- R16 Cad/Cam systems (CEREC). Knows how to master the different phases of this procedure and the materials that can be used with it.
- R17 Dental veneers. Knows the manufacturing procedures, types, indications and materials used.
- R18 Applies the principles of dental aesthetics in the different disciplines of dentistry



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

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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
R1, R2, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15	20,00%	OPEN QUESTIONS: Written exam in which basic theory knowledge and the ability to relate, integrate and coherently express it in writing is assessed.
R1, R2, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15	25,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
R1, R2, R9, R15	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.
R1, R2, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15	30,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
R1, R2, R15	5,00%	CLASS PARTICIPATION: The teacher assesses the participation, involvement and progress the student makes in acquiring knowledge and skills in theory and practical classes and seminars. This is never more than 5% of the final grade.
R1, R2, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15	15,00%	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 IS OBLIGED TO COMPLY WITH THE REGULATIONS OF THE UCV CLINICS (BOTH IN THE LABORATORY AND THE DENTAL OFFICE) REGARDING: CLOTHING (UCV PAJAMAS, SANITARY FOOTWEAR, AND SURGICAL CAP), CARE OF THE FACILITIES, AND BEHAVIOR. FAILURE TO COMPLY WILL RESULT IN A SANCTION/EXPULSION FROM PRACTICE. THE STUDENT MUST HAVE THE REQUIRED LANGUAGE SKILLS TO ATTEND TO



PATIENTS DURING CLINICAL PRACTICES. TO PASS THE SUBJECT IN THE FINAL GRADE, THE STUDENT MUST OBTAIN A SCORE OF 5 ON THE EXAM. IMPORTANT: THE STUDENT MUST OBTAIN AT LEAST A 4 IN EACH OF THE TESTS TO CALCULATE THE AVERAGE; THEREFORE, IF THE STUDENT SCORES LESS THAN THAT IN ANY OF THEM, THEY WILL NOT BE ABLE TO AVERAGE IT WITH THE OTHER TESTS AND WILL FAIL. THE THEORETICAL EXAM CONSISTS OF:

- 25 MULTIPLE-CHOICE QUESTIONS WITH 1 CORRECT ANSWER OUT OF 5. FOR EVERY 5 UNANSWERED OR INCORRECT QUESTIONS, 1 CORRECT QUESTION WILL BE DEDUCTED.
- 5 SHORT-ANSWER QUESTIONS

THE PRACTICAL PART CONSISTS OF 10 SHORT-ANSWER QUESTIONS.

THE EVALUATION OF SEMINARS WILL BE CARRIED OUT BY SCORING WORKS RELATED TO THEM, INDIVIDUAL AND/OR IN GROUPS, WHICH THE STUDENT WILL UPLOAD TO THE PLATFORM WITHIN THE ESTABLISHED DEADLINE. PRACTICAL ATTENDANCE: PRACTICAL SESSIONS WILL BE HELD EVERY THURSDAY MORNING (OR ASSIGNED DAY) IN ALTERNATE GROUPS. THE NUMBER OF PRACTICAL SESSIONS WILL BE SIX PER GROUP. ATTENDANCE AT PRACTICAL SESSIONS IS 100% MANDATORY. THE MAXIMUM NUMBER OF JUSTIFIED PRACTICAL ABSENCES ALLOWED IS 2. ABSENCES CAN ONLY BE JUSTIFIED FOR THE SAME REASONS AS THOSE ESTABLISHED BY UCV STATUTES FOR RESCHEDULING AN EXAM. IF THE MAXIMUM ALLOWED NUMBER OF JUSTIFIED ABSENCES IS EXCEEDED, STUDENTS MUST ATTEND THE EXAM IN THE SECOND SESSION, UP TO A MAXIMUM OF 3. IF THEY EXCEED THE LIMIT OF THE 2ND CALL OR ARE NOT JUSTIFIED, THEY WILL HAVE TO RETAKE THE ENTIRE SUBJECT NEXT YEAR.

In this subject, the possibility of a single evaluation is not considered, as the compulsory completion of practical activities with active student participation is required. HONORS MENTION: According to Article 22 of the Evaluation and Grading Regulations of the UCV degree programs, the mention of "Honors Distinction" may be awarded by the professor responsible for the program to students who have obtained at least a grade of 9 out of 10 ("Outstanding"). The number of "Honors Distinction" mentions that may be awarded cannot exceed five percent of the number of students included in the same official record, unless this number is less than 20, in which case only one "Honors Distinction" may be granted.



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, M6	R1, R2, R3, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15, R16, R17, R18	14,00	0,56
PRACTICAL CLINICAL SESSION M11	R1, R2, R3, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15, R18	24,00	0,96
SEMINAR M4, M6, M8, M9, M10, M12	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R14, R18	18,00	0,72
TUTORING M15	R3, R9	2,00	0,08
EVALUATION M15	R10, R11, R12, R13, R14, R15, R16, R17, R18	2,00	0,08
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M8, M10, M13	R1, R2, R3, R9, R14	40,00	1,60
GROUP WORK M9, M10, M12	R1, R2, R3, R4, R9, R14, R18	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
Diagnostic	<i>Aesthetic clinical history. Aesthetic diagnosis. Planning</i>
MATERIALS	<i>Materials used in dental aesthetics. ceramics. Composites</i>
DENTAL CERAMICS	<i>Crown preparation, bridges and veneers. Analog systems and CAD-Cam</i>
COMPOSITE	<i>Composites composition. Indications. Advantages and disadvantages</i>
INCRUSTATIONS	<i>Inlay. Onlay. Overlay. Endocrown. Used materials</i>
ASSOCIATED PATHOLOGY	<i>Alterations that require aesthetic treatment. Dental stains. Treatment for changes in the shape and color of the teeth. teeth whitening</i>
RELATION WITH OTHER SPECIALITIES	<i>Relationship of aesthetic dentistry with other specialties. Orthodontics. Surgery. periodontics</i>



Temporary organization of learning:

Block of content	Number of sessions	Hours
Diagnostic	2,00	4,00
MATERIALS	4,00	8,00
DENTAL CERAMICS	4,00	8,00
COMPOSITE	4,00	8,00
INCRUSTATIONS	6,00	12,00
ASSOCIATED PATHOLOGY	6,00	12,00
RELATION WITH OTHER SPECIALITIES	4,00	8,00

References

BARBERO J.. *Dental pathology and therapeutics*. 1st Edition. Ed. Síntesis. Madrid
GEORGE A. FRREDMAN. *CONTEMPORARY ESTHETRIC DENTISTRY*. ELSEVIER.
MISSOURI
KENNETH W. ASCHHEIM. *ESTHETIC DENTISTRY. A CLINICAL APPROACH TO
TECHNIQUES AND MATERIALS*. 3rd EDITION. Ed ELSEVIER. NEW YORK
LINDA GREENWALL (2017). *Tooth whitening techniques*. 2nd Edition. Ed. CRC Press. Boca
Raton