Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 482006 **Name:** Imaging techniques and dental photography

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

Module: Module 2: Introduction to Dentistry

Subject Matter: INTRODUCTION TO DENTISTRY **Type:** Elective

Field of knowledge: Health Sciences

Department: Medical Specialities

Type of learning: Classroom-based learning

Languages in which it is taught: English, Spanish

Lecturer/-s:

OPO4	Luis Estivalis Torrent **(Responsible Lecturer)**	LUIS.ESTIVALIS@UCV.ES
OPI04	Luis Estivalis Torrent **(English Responsible Lecturer)**	LUIS.ESTIVALIS@UCV.ES

Module organization

Module 2: Introduction to Dentistry

Subject Matter	ECTS	Subject	ECTS	Year/semester
PSYCHOLOGY	6,00	Psychology	6,00	2/2
STATISTICS	6,00	Epidemiology and Statistics	6,00	1/2
INTRODUCTION TO DENTISTRY	42,00	Dental Equipment, Materials and Instrumentation	6,00	2/2
		Imaging techniques and dental photography	6,00	3/2
		Oral Radiology	6,00	2/1
		Planning and Management of the dental clinic	6,00	3/2
		Preventive and Community Dentistry	6,00	3/1

Recommended knowledge

Interest in photography and educational and informative communication.

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 basic principles of photography.
R2	The student knows the possibilities that new technologies offer for a better daily clinical practice.
R3	Gets involved in taking and processing photographs in dental clinics and laboratories.
R4	Masters the basic and specific software of digital imaging.
R5	The student is able to work as a team.
R6	The student is able to transmit knowledge orally, clearly and accurately.
R7	Applies the appropriate photographic technique to each of the different dental photographic modalities (intraoral, first visit, instrumental).
R8	Develops the possibilities offered by the software to adjust the images taken in the clinic based on the specific objectives we pursue.
R9	Assumes an order and classification of the images to facilitate later consultation.
R10	The student is able to develop a public presentation of a research work.
R11	The student can design a poster following the canons for scientific communications.

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 1 Know the essential elements of the dental profession, including ethical principles and legal responsibilities.			x	
CE A 2 Understand the importance of such principles for the benefit of the patient, society and the profession, with special attention to professional secrecy.			x	
CE A 3 Identify the patient's concerns and expectations, as well as to communicate effectively and clearly, both orally and in writing, with patients, relatives, the media and other professionals.			x	
CE A 4 Understand and recognize the social and psychological aspects relevant to the treatment of patients.			x	
CE A 8 Know how to share information with other health professionals and to work as a team.			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. 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. l.	Interpersonal skills	x	
2. m.	Recognition of diversity and multiculturalism	x	
2. o.	Ethical commitment		x
3. p.	Autonomous learning		x
3. q.	Adaptation to new situations		x
3. u.	Initiative and entrepreneurship	x	
3. v.	Motivation for quality		x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R8	10,00%	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, R5, R6, R11	20,00%	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, R3, R4, R7, R8, R9, R11	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.
R4	40,00%	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

It is mandatory to pass the practical exam to average with the rest of the evaluation systems (5/10 in the practical exam).
In this subject, a single assessment may be chosen. This is considered an exceptional and extraordinary assessment method. It will only be applied when the student, for a justified and duly accredited reason, cannot meet the minimum attendance requirement. This method must be requested from the responsible faculty member, who, in coordination with the corresponding Department Director, will assess its suitability and communicate the decision in writing. The single assessment is not a single test, but rather a set of tasks and/or tests through which all established learning outcomes will be assessed, ensuring that the student has dedicated the corresponding ECTS credits to the 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.
M5	Problem and case solving. Written tasks. Online activity on the e-learning platform. Personal study. Compiling information and documentation.
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.

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, R6, R10, R11	10,00	0,40
PRACTICAL CLINICAL SESSION M2	R1, R2, R3, R5, R7	10,00	0,40
PRACTICAL CLASS M5	R1, R2, R4, R5, R6, R11	40,00	1,60
TOTAL		**60,00**	**2,40**

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M15	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	70,00	2,80
GROUP WORK M15	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	20,00	0,80
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: Knowledge of the basic principles of practical photography	1. Basic principles of general photography2. Introduction to clinical photography
BLOCK II: Development and application of digital image processing software	3. Management, retouching and composition of digital images and presentations

Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: Knowledge of the basic principles of practical photography	8,00	16,00
BLOCK II: Development and application of digital image processing software	22,00	44,00

References

El Libro de la fotografía dental, Chris George, BLUME
·Iniciación a la macrofotografía dental, Agustí Vernedas, El Vern Edicions
·Adobe Press (2013), Photoshop CC, Anaya Multimedia, Diseño Y Creatividad
·Caballero Collado N. (2013), Photoshop CC Guía Práctica. Anaya Multimedia