

Year 2025/2026

480303 - Preventive and Community Dentistry

Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480303 Name: Preventive and Community Dentistry

Credits: 6,00 ECTS Year: 3 Semester: 1

Module: Module 2: Introduction to Dentistry

Subject Matter: INTRODUCTION TO DENTISTRY 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 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

No required



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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 Adequately interprets both the verbal and non-verbal content of a message. Captures the signs provided by the patient's eyes, gestures and tone of voice and assess their emotional state and the coherence with the verbal message they convey. R2 Identifies the model of attention that the patient needs. Through the interview, the student is able to guide the case and offer the patient the most appropriate response to the perceived needs. R3 The student systematizes the different phases of a clinical interview. Knows how to distribute the time of the interview in the different phases: presentation, exploratory, resolution and social applying them to the interviews carried out in the practice. R4 Knows the ethical implications derived from the clinical interview. Demonstrates knowledge of the degree of commitment that professional secrecy entails R5 The student is able to cope with difficult situations and to communicate bad news. Demonstrates ability to handle interviews with aggressive patients. The student is able to resolve interviews with hyperdemanding patients. R6 Knows how to present oneself correctly introducing him/herself to the patient as an introduction to the interview. R7 Maintains proper eye contact during the interview. R8 Creates a suitable environment in the interview and offers the patient the most favourable environment so that they can communicate what they want: no interruptions, having the necessary time. R9 Allows the patient to express him/herself. Lets the patient speak (free narrative phase) R10 Knows how to use techniques to empty the information. Asks appropriate questions (targeted narrative phase) to obtain all relevant information. Clearly narrows down the reason for consultation. R11 Knows how to be empathetic and makes the patient feel that his/her problems are understood. R12 Knows how to be assertive and demonstrates a firm position based on knowledge, experience and beliefs, respecting the decisions and beliefs of the patient.



R13	Knows how to explore resistance and also investigates the difficulties the patient feels and possible disagreements with the situation posed.
R14	Knows how to develop the negotiation phase and is able to exchange opinions, redirect ideas and reach an agreement with the patient.
R15	Knows how to motivate and to introduce the interview aimed at motivating change in its different phases.
R16	Explores the patient's understanding and ensures that the patient has understood the agreed measures before leaving.
R17	Establishes safety net. Also warns patients of possible unfavourable developments and makes him/herself available if necessary.
R18	The student says goodbye properly and greets politely at the end of the interview.
R19	Knows the anatomical oral-facial structures and their function.
R20	Knows basic fundamental concepts of dental pathology
R21	Knows basic fundamental aspects in the treatment of oral pathology.
R22	The student is able to fill out a complete medical history, knowing its parts.
R23	Knows how to complete a full dental history.
R24	Knows the evolution of dentistry along history.
R25	Learns to recognize the different types of dental products on the market and their indications.
R26	Shows the necessary skills to take oral samples.
R27	Knows the anatomical structures of the mouth.
R28	Recognizes different types of dental treatment performed on a patient.
R29	Works in an ergonomic position in the dental chair.



R30	The student is able to make an oral diagnosis on a patient under supervision.
R31	Knows the different types of radiological techniques applicable to dentistry, differentiating them from each other.
R32	Distinguishes the anatomy of the oral cavity in each of the radiological techniques used in dentistry (radiological anatomy).
R33	Knows the different projections and dental radiological techniques in conventional radiology, as well as their application according to age.
R34	Knows of the image of non-tumoral lesions in the different radiological techniques.
R35	Knows the image of tumoral lesions in the different radiological techniques.
R36	Knows the alterations produced by cavities in the teeth and their radiological evaluation.
R37	Familiarizes with the layout and characteristics of radiodiagnostic systems in the workplace, as well as their location according to the characteristics of the site.
R38	Learns how to use the different radiological diagnostic systems, as well as the choice of the most appropriate one according to the pathology to be assessed.
R39	Familiarizes with the material used, as well as in the its use during treatment.
R40	Transmits information about what is to be done to the patient, relieving the patient from anxiety when tests are made.
R41	Learns the placement of the plates in oral and extra oral projections according to the type of technique used, as well as the arrangement of the tube in the performance of each projection.
R42	Learns the use of digital image capture systems without the use of plates and how to store, reproduce and visualize the results.
R43	Shows manual and automatic plate development.
R44	Knows the methods of radiological protection of both the patient and the professional against ionising radiation in daily practice.
R45	The student is able to work as a team.
R46	The student is able to transmit knowledge orally, clearly and accurately.



R47	The student is able to develop a public presentation of a research work.
R48	The student can design a poster following the canons for scientific communications.
R49	Knows the scientific method and has critical capacity to value the established knowledge and the new information.
R50	Knows the scientific principles of sterilization, disinfection and antisepsis necessary to prevent cross infection in dental practice.
R51	Identifies the etiological and risk factors of oral diseases.
R52	Knows and interprets procedures and tests necessary to identify the risk of the most prevalent oral diseases.
R53	Knows the methods of prevention and control of oral diseases.
R54	Knows the procedures to diagnose oral health in the community and knows how to interpret the results.
R55	Knows and is capable of transmitting the importance of oral health for the maintenance of general health.
R56	The student is trained in the design and management of individual and community health education techniques.
R57	Knows how to plan individual and community health programs.
R58	Knows how to organize and provide oral health care in the community.
R59	Knows how to use infection control procedures in dentistry.
R60	Knows how to use procedures and tests necessary to identify the risk of the most prevalent oral diseases.
R61	Knows how to use methods of prevention and control of the most prevalent oral diseases.
R62	Applies the principles of ergonomics in dental work, both at an individual level and within the work team when appropriate, as well as the principles of prevention of occupational risks associated with dental practice.



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Knows how to educate and motivate patients in the prevention of oral and dental diseases, controls pathogenic oral habits, instructs them on proper oral hygiene, on dietary and nutritional measures and, in short, on all methods of maintaining oral health.
 Proves knowledge about ergonomics in dentistry.
 Knows the instruments and dental equipment, their maintenance and handling.
 Proves knowledge about ergonomics in Dentistry.
 Knows the odontological instruments and equipment, their maintenance and handling.



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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			

PECIFIC		Weig	hting	J
	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.			1 1 1 1 1 1 1	X
CE A 5 Know how to apply the principles of anxiety and stress management to oneself, to patients and to other members of the dental team.				X
CE A 6 Understand the importance of developing a professional practice with respect to patient autonomy, beliefs and culture.				X
CE A 7 Promote autonomous learning of new knowledge and techniques, as well as motivation for quality.				X
CE A 8 Know how to share information with other health professionals and to work as a team.				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 A 1(Know and identify the psychological and physical problems derived from gender violence in order to train students in the prevention, early detection, assistance, and rehabilitation of the victims of this form of violence.	x
CE B 1'Understand the basic biomedical sciences on which dentistry is based to ensure proper oral care.	x
CE B 1:Understand and recognize the normal structure and function of the stomatognathic system, at the molecular, cellular, tissue and organic level, in the different stages of life.	x
CE B 1:Understand and recognize the science of biomaterials essential for dental practice as well as the immediate management of possible allergies to them.	x
CE B 14Know about general disease processes, including infection, inflammation, immune system disorders, degeneration, neoplasm, metabolic disorders and genetic disorders.	X
CE B 1tBe familiar with the general pathological features of diseases and disorders affecting organ systems, specifically those with oral impact.	X
CE B 16Understand the fundamentals of action, indications and efficacy of drugs and other therapeutic interventions, knowing their contraindications, interactions, systemic effects and interactions on other organs, based on available scientific evidence.	X
CE B 1 Understand and recognize the principles of ergonomics and safety at work (including control of cross-infection, radiation protection and occupational and biological diseases).	x
CE B 1Know, critically evaluate and know how to use clinical and biomedical information sources to obtain, organize, interpret and communicate scientific and health information.	x
CE B 1\(Know the scientific method and have the critical capacity to value the established knowledge and the new information. Be able to formulate hypotheses, collect and critically evaluate information for the resolution of problems, following the scientific method.	x
CE E 2\Recognize the determinants of oral health in the population, both genetic and lifestyle-dependent, demographic, environmental, social, economic, psychological and cultural.	x



CE E 3(Recognise the role of the dentist in actions to prevent and protect		X	
against oral diseases, as well as in the maintenance and promotion			
of health, both at individual and community level.			
CE E 31Know the National Health System, as well as the basic aspects of		X	
health legislation, clinical management and proper use of health			
resources, understanding the importance of the role of the dentist in			
the field of Primary Health Care.			

TRANS	VERSAL	Weig	ghting	I
	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





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Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R20, R21, R24, R47, R48, R50, R52, R53, R56, R57, R58, R62	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.
R20, R21, R24, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R62, R64	50,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
R43, R44, R45, R46, R52	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.
R43, R44, R45, R46	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.
R19, R20, R21, R24, R47, R48, R49, R50, R52, R53, R54, R55, R56, R57, R58, R60, R62, R64	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.

Observations

To pass the course, the following is required:

- EXAM (60%): Pass the written exam with at least a 5. The exam, worth 60% of the total course grade, consists of two parts: a 50% multiple-choice test with 5 possible answers, where only one is correct and each incorrect answer subtracts 0.25% of the grade, and a 4-question short-answer section worth 10%. Missing answers in this section does not subtract points. Both sections together must add up to 5 to pass the course and to be able to add grades for assignments,



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practicals, and class participation.

- PRACTICES (25%): Attend all 7 practicals. They are 100% mandatory. Students must do at least 6 dental cleanings. Only one absence is allowed, which must always be justified, with the same reasons as those stated in the UCV statutes. If the absences continue and/or are not duly justified, the student will be required to take the course in the following academic year. The intern must comply with the UCV clinic regulations regarding dress code, facility care, and behavior. Failure to comply will result in a sanction/expulsion from the internship.

The student must have the language skills necessary to care for patients during clinical internships. In the internship, assessment will be made of the student's proper performance of all phases of the clinical interview, clinical attire, patient care, patient treatment, order and cleanliness, ergonomics, as well as the taking of x-rays, appropriate completion of the clinical history, final follow-up of the patient, and proper cleaning of equipment and the operating room.

The internship is worth 25% of the grade, with 20% corresponding to the clinical internship itself and 5% to patient communication skills, i.e., proper clinical interviewing.

To pass the clinical practice, the student must obtain an average grade of at least 7.

- INTERNSHIP REPORT: The student must upload a duly completed internship report to the platform, signed by the instructors, within the appropriate deadlines. This is mandatory. Failure to do so will result in a 2-point penalty from the total clinical practice grade.
- FINAL PROJECT AND ORAL PRESENTATION (10%): The student must complete the final project and present their oral presentation, obtaining at least a 5 for the project to be counted. This must be uploaded to the platform during the first half of December. If the project is not completed (do and be present in the oral presentation) or submitted within the indicated deadlines, the student must retake the course the following year.

If the student does not upload the final work to the platform, will result in a 2-point penalty from the total grade for the project.

Assignments submitted after the deadlines, even in the second sitting, will not be accepted.

- CLASS ATTENDANCE AND PARTICIPATION (5%): It is not mandatory but it is advisable, since it represents 5% of the final and total grade for the subject.
- REPEATING STUDENTS: Repeaters will have their grades for practicals, assignments, and class participation kept for one more year, and only one. Therefore, they will not have to do the practicals if they passed with a grade above 7, nor the assignments if they obtained at least a grade of 5. If they do not take the exam or fail it in the following year, they will have to do the practicals and assignments again in subsequent years.

In this subject, the possibility of a single assessment is not contemplated, as it requires the mandatory completion of practical activities with active participation of the students.



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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.



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IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
THEORY CLASS M1, M5, M8, M9, M10	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R34, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64	26,00	1,04
PRACTICAL CLINICAL SESSION M3, M10, M13	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R34, R37, R38, R39, R40, R41, R42, R43, R47, R48, R49, R50, R51, R52, R53, R56, R58, R59, R62, R63	28,00	1,12
SEMINAR M12	R24	2,00	0,08
TUTORING M3, M5, M15	R44, R45, R46	2,00	0,08
EVALUATION M5, M10	R20, R21, R24, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R62, R63, R64	2,00	0,08
TOTAL		60,00	2,40



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LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK	R1, R22, R24, R25, R26,	70,00	2,80
M3, M5, M8, M10, M13	R27, R28, R32, R34, R37,		
	R38, R39, R40, R41, R43,		
	R44, R45, R46, R47, R48,		
	R49, R50, R52, R53, R54,		
	R55, R56, R60, R62		
GROUP WORK	R8, R9, R11, R12, R13,	20,00	0,80
M9, M10	R14, R15, R22, R24, R27,		
	R37, R38, R42, R44, R45,		
	R46, R47, R50, R52, R53,		
	R54, R55, R56, R58, R60,		
	R64		
TOTAL		90,00	3,60



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK I: INTRODUCTION	Concept of Preventive and Community Dentistry. Prevention and control of infection in the dental clinic.
BLOCK II: ETIOPATHOGENESIS OF THE MOST PREVALENT ORAL DISEASES.	 The biofilm. Mechanical control of bacterial plaque. Chemical control of bacterial plaque.
BLOCK III: PREVENTION OF THE MOST FREQUENT ORAL PATHOLOGIES.	Tooth decay. Periodontal disease.
BLOCK IV: PREVENTION OF OTHER ORAL PATHOLOGIES.	 Oral cancer. Dental and jaw injuries. Malocclusions.
BLOCK V: DENTAL MANAGEMENT MODELS.	 Diseño de programas preventivos. Modelos de asistencia odontológica. Odontología basada en la evidencia (OBE)
BLOCK VI	Preclinical practices. Clinical practices.



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Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: INTRODUCTION	3,00	6,00
BLOCK II: ETIOPATHOGENESIS OF THE MOST PREVALENT ORAL DISEASES.	3,00	6,00
BLOCK III: PREVENTION OF THE MOST FREQUENT ORAL PATHOLOGIES.	3,00	6,00
BLOCK IV: PREVENTION OF OTHER ORAL PATHOLOGIES.	4,00	8,00
BLOCK V: DENTAL MANAGEMENT MODELS.	3,00	6,00
BLOCK VI	14,00	28,00



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References

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- 2. Mehareen E, Behznezhad F, Sanehi M, Noori T, Harandi H, SeyedAlinaghi S. Olfactory and gustatory dysfunctions due to the coronavirus disease (COVID-19): a review of current evidence. Eur Arch Otorhinolaryngol. 2021 Feb;278(2):307-312.
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