



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480309 **Name:** Prosthodontics II

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

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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Universidad
**Católica de
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San Vicente Mártir

Course guide

Year 2023/2024
480309 - Prosthodontics II

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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

It is advisable to have pass Dental Prosthetics I.



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 recognizing the signs that treatment will be complex and in knowing how to take appropriate measures to deal with them.
- R4 Knows the components of the stomatognathic system. Biomechanics and functionality.
- R5 Understands the neuroanatomy and physiology of the masticatory system. Mastication - swallowing - aesthetics. Also, integrates the knowledge of the dental articulator and its importance in the dentist's daily practice. Static and dynamic occlusion.
- R6 Recognizes the generalities of the prosthetic rehabilitations, types of edentulousnesses-types of prosthesis.
- R7 Fosters the knowledge of the complete edentulous patient. Functional and morphological changes - their topographic anatomy
- R8 Masters the clinical and laboratory sequence in the elaboration of complete prostheses and the handling of biomaterials.
- R9 The student is able to solve the problems of the patient who wears prosthesis, to promote the handling of dental articulators - their importance in diagnosis and treatment. Knows the different assembly techniques. Intermaxillary records - articulator programming.
- R10 Proves knowledge to elaborate a correct clinical history and the correct handling of the information with the laboratory.
- R11 Integrates the concepts of occlusion and its importance in dental work.
- R12 Masters the concepts of aesthetics and functions to restore normal function to the completely edentulous patient.
- R13 Recognizes the generalities and types of classification of partial toothless patients and the clinical indexes.
- R14 Performs a clinical examination of a partial toothless patient and makes a clinical history.



- R15 The student is able to recognize the components of a removable partial prosthesis and to make its correct design
- R16 Proves knowledge of the partially toothless patient. Functional and morphological changes - their topographic anatomy.
- R17 Masters the clinical and laboratory sequence in the production of complete prostheses and the handling of biomaterials.
- R18 The student is able to solve the problems of the partial dentures patient (maintenance-repair and conservation).
- R19 Promotes the management of dental articulators - their importance in diagnosis and treatment
- R20 Proves knowledge to elaborate a correct clinical history and the correct handling of the information with the laboratory.
- R21 Masters techniques for making individual trays, primary and secondary measurements. Obtaining the impellers for testing. Establishes a correct design of the prosthesis.
- R22 Knows the laboratory procedure for the preparation of the prosthesis - different types - resin.
- R23 Masters the concepts of aesthetics and function to recover the normal function of the toothless patient. Masters the concepts of direct-indirect retention.
- R24 Manages clinically the partial and total edentulous patients in their diagnosis and rehabilitation treatment. Knows how to solve the emergencies of partially and totally edentulous patients.
- R25 Show ability to take measurements and materials for their application.
- R26 Takes measurements with silicones and polyether. Knows how to differentiate the types of material and their differences and advantages.
- R27 Clinical cases. Knows how to solve real clinical cases and apply the knowledge of the subject.



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



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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
	55,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	10,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	1,00%	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.
	34,00%	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

- In-person attendance in the fifteen practices of the subject is mandatory to be eligible for the first and second calls of the exam.
- In the event of an unjustified absence, the student will lose the option of attending the first call, leaving only the second call as an option to pass the subject.
 - In case of having a justified absence, the student may attend the first and second calls as long as he or she completes the pertinent recovery task in the time and manner set by the responsible teacher.
 - In order for the absence to be considered justified, it must be notified seven days before the absence or adequately justified within fifteen days after the absence.
 - In case of having two or three justified absences, the student will lose the option to attend the first call, leaving only the second call as an option to pass the subject, provided that they carry out the recovery work ordered by the responsible teacher.
 - In case of having four or more justified absences, the option to attend the first and second call will be definitively lost, automatically failing the subject and having to repeat the practices the next



academic year.

- Exceptions to this premise must be evaluated individually, assessing the specific circumstances.
- The theoretical part and the practical exam part must be passed with at least a five out of ten so that an average can be made between the marks to obtain the final
- The theory exam questions will be developed in two parts:
 - Part one: multiple choice questions with one correct option against four possible answers. It must be taken into account that three wrong questions will subtract one correct one. Unanswered questions will not count.
 - Part two: clinical case.

The percentage corresponding to class attendance and practices will only be assigned once at least a five out of ten has been obtained in the practical exam and a five out of ten in the theoretical exam.

- The results of the approved exams are not saved for calls on other academic courses.
- The practice mark will be saved for future courses provided that the twelve practices have been completed and have been approved.
- Not appearing for a call refers to both theoretical and practical exams.

*The student has the obligation to accomplish with the UCV clinic regulations regarding:

- Outfit.
- Care of the facilities.
- Behavior.
- Failure to comply will result in a sanction/expulsion from the practice.

The student must have the linguistic skills to care for patients in clinical practices.

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, M6, M10, M11, M12, M15	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	26,00	1,04
PRACTICAL CLINICAL SESSION M1, M3, M6, M9, M10, M11, M12, M15	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	30,00	1,20
SEMINAR M1, M3, M4, M6, M12, M15	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R20, R22, R23, R24, R27	16,00	0,64
TUTORING M1, M3, M6, M15	R17, R20, R22, R23, R27	16,00	0,64
EVALUATION M4, M6, M8, M9, M10, M11, M12, M15	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	16,00	0,64
PRACTICAL CLASS M1, M3, M4, M6, M12, M15	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R20, R22, R23, R24, R27	16,00	0,64
TOTAL		120,00	4,80



LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M1, M2, M3, M4, M6, M8, M9, M10, M11, M12, M13, M15	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	20,00	0,80
GROUP WORK M2, M3, M4, M6, M8, M9, M10, M12, M13	R1, R2, R3, R4, R5, R6, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20	10,00	0,40
TOTAL		30,00	1,20



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Part I: Complete removable denture	<p>CLASS 1: Explanation of the subject. Clinical sessions.</p> <p>CLASS 2: Diagnosis and treatment plan for total edentulousness. Anatomy. Impression materials.</p> <p>CLASS 3: Impressions. Vertical dimension. Intermaxillary relationships.</p> <p>CLASS 4: Clinical and laboratory sessions.</p> <p>CLASS 5: Artificial teeth. Occlusion.</p> <p>CLASS 6: Immediate removable total prosthesis. Overdentures.</p>
Part II: Partial removable denture	<p>CLASS I. Introduction, Bioanatomical factors and Biomechanical factors of the partial removable denture (PRD).</p> <p>CLASS II. Elements of the removable partial denture. Major and minor connectors</p> <p>CLASS III. Direct retainers, indirect retainers and occlusion in RPD.</p> <p>CLASS IV – Biomechanical in PRD, dental surveyor and design.</p> <p>CLASS V- Clinical sessions on PRD.</p> <p>CLASS VI – Fixed/Removable Denture.</p>



Temporary organization of learning:

Block of content	Number of sessions	Hours
Part I: Complete removable denture	30,00	60,00
Part II: Partial removable denture	30,00	60,00

References

- Borel J C, Schittly J, Exbrayat J. Manual de prótesis parcial removable. Barcelona: Masson, 1985.
- Carr A B, McGivney G P, Brown D T. McCracken Prótesis Parcial Removable. Madrid: Elsevier 2006.
- Drücke W. Klemm B. Bases de la prótesis dental total. 1991 .Ed. Doyma. Barcelona (España).
- Mallat, Keogh. Prótesis Parcial Removable. Clínica y laboratorio. Ed. Mosby/Doyma libros.
- Llena J. prótesis completa. 1988. Ed. Labor. Barcelona (España).
- McGivney, Castleberry. McCracken. Prótesis Parcial Removable. Editorial Médica Panamericana