



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480308 **Name:** Prosthodontics I

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

Recommended knowledge

In order to understand the subject, it is advisable for the student to have knowledge of oral anatomy, oral histology, dental anatomy, microbiology and dental materials.



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 indicate that the treatment will be complex and in knowing how to take adequate measures to treat it.
- 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 Masters the clinical and laboratory sequence in the production of complete prostheses and the handling of biomaterials.
- R14 Promotes the management of dental articulators - their importance in diagnosis and treatment



- R15 Proves knowledge to elaborate a correct clinical history and the correct handling of the information with the laboratory.
- R16 Masters techniques for making individual trays, primary and secondary measurements. Obtaining the impellers for testing. Establishes a correct design of the prosthesis.
- R17 Knows the laboratory procedure for the preparation of the prosthesis - different types - resin.
- R18 Masters the concepts of aesthetics and function to recover the normal function of the toothless patient. Masters the concepts of direct-indirect retention.
- R19 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.
- R20 Takes measurements with silicones and polyether. Knows how to differentiate the types of material and their differences and advantages.



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
	0,00%	OPEN QUESTIONS: Written exam in which basic theory knowledge and the ability to relate, integrate and coherently express it in writing is assessed.
	70,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	0,00%	ORAL TEST: Oral exam in which the student answers the questions the teacher asks, verbally explaining the contents acquired, allowing for interaction with the teacher.
	0,00%	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.
	0,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	0,00%	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.
	0,00%	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.



0,00%	SIMULATIONS, OSCES: Through simulations, real-life situations are reproduced in standardised conditions, which enable the teacher to analyse the clinical skills of the student in specific situations. Computer simulations or standardised simulated illnesses are used. The test known as OSCE (Objective Structured Clinical Examination) may also be used. The OSCE consists of students going around a circuit of sequential stops where they are asked to carry out a variety of different skills and techniques.
30,00%	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

Observations:

Practices: Total of 6 practice lessons

- 100% of assistance required in order to have access to 1st call of written exam.
- Only 1 **justified** absence permitted under UCV statute.
- An unjustified absence will mean going directly to 2nd call. **More than 1 absence** in practices will mean the failing of the practices and the student will have to course the subject again.
- If the student passes practices but fails the written exam, the mark from the practical part will be saved for following calls.
- The student has the obligation of following the **UCV Clinics normative and rules** about dress code, behavior and care in dental box and laboratory. The breach of these rules will mean the expulsion from the practical session.
- Students must have the required language skills needed for clinical practices in order to be able to communicate with the patients.

Evaluation:

- Students **must pass the practices** (5/10) in order to have access to the written exam in any call.
- Pass the written exam** (5/10) in order to pass the subject.



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, M6	R7, R8, R9, R10, R11, R12, R13, R14, R16, R17, R18, R19	30,00	1,20
PRACTICAL CLINICAL SESSION M1, M2	R1, R2, R5, R10, R11, R14	6,00	0,24
SEMINAR M9, M12	R2, R4, R7, R10, R11, R14	2,00	0,08
TUTORING M4, M9, M10	R4, R5, R7, R8	2,00	0,08
EVALUATION M3	R1, R2, R4, R5, R6, R7, R8, R9, R10, R11, R12, R16, R17, R18, R19	4,00	0,16
PRACTICAL CLASS M2, M3, M6, M9, M11, M15	R1, R2, R4, R5, R11, R14	28,00	1,12
TOTAL		72,00	2,88

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M1, M3, M10	R4, R5, R6, R7, R8, R9, R10, R11, R12, R14, R16, R17, R18, R19	70,00	2,80
GROUP WORK M2, M4, M9, M10, M12	R4, R5, R8, R11, R12, R16, R17, R18	8,00	0,32
TOTAL		78,00	3,12



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
SECTION I: OVERVIEW OF PROSTHODONTICS	1-INTRODUCTION-OBJECTIVES-REQUERIMENTS-MATERIALS-TYPES OF PROSTHESIS-GENERALITIES 2- STOMATOGNATHIC SYSTEM-COMPONENTS-ANATOMY-BIOMECHANICS-FUNCTION-NEUROANATOMY 3-PHYSIOLOGY OF THE MASTICATORY SYSTEM-SWALLOWING-MASTICATION-AESTHETICS
SECTION II	4. TOOTH ALIGNMENT-MANDIBULAR MOVEMENTS. 5. OPTIMAL FUNCTIONAL OCCLUSION-DETERMINANTS OF OCCLUSION-ANTERIOR GUIDANCE 6. ARTICULATORS-CONCEPT-FACEBOWS-INTERMAXILLARY RECORDS-WORK SEQUENCE-CLINICAL APPLICATION



SECTION III. COMPLETE REMOVABLE DENTAL PROSTHESIS (CRDP). CLINICAL AND LABORATORY SEQUENCE

7. DIAGNOSIS IN CRDP-EDENTULOUS PATIENT-ORAL EXAMINATION-TOPOGRAPHY-CLINICAL HISTORY
8. PRINCIPLES IN RETENTION STABILITY AND SUPPORT-PRIMARY IMPRESSIONS-TYPES OF TRAY-IMPRESSION MATERIALS-CONFECTION OF INDIVIDUAL TRAY
9. SECONDARY IMPRESSIONS-TEST OF INDIVIDUAL TRAY-SECONDARY MODEL-SPLIT CAST-WAX RIM
10. ASSEMBLY OF THE UPPER MODEL-FACEBOW-OCCLUSAL PLANE
11. ASSEMBLY OF THE LOWER MODEL-TYPES OF RECORDS-VERTICAL DIMENSION-PHONETICS-AESTHETIC TEST
12. MOUNTING TEETH-TYPES OF TEETH-OCCLUSION AND DISOCCLUSION SCHEMES-COLOR-SHAPE-SIZE
13. TEETH TEST-PHONETIC AND OCCLUSAL ASPECTS-FLASK-TYPES OF RESIN
14. PLACEMENT OF THE PROSTHESIS IN THE MOUTH-ADJUSTMENTS-CORRECTIONS-INDICATIONS-CONTROLS
15. MAINTENANCE OF THE PATIENT WITH CRDP-EMERGENCIES-COMPLICATIONS-IMMEDIATE COMPLETE PROSTHESIS-RIGID AND SOFT RELINE

Temporary organization of learning:

Block of content	Number of sessions	Hours
SECTION I: OVERVIEW OF PROSTHODONTICS	4,00	8,00
SECTION II	10,00	20,00
SECTION III. COMPLETE REMOVABLE DENTAL PROSTHESIS (CRDP). CLINICAL AND LABORATORY SEQUENCE	22,00	44,00



References

MAIN BIBLIOGRAPHY

1-PRÓTESIS TOTAL REMOVIBLE - Colección fundamentos , técnicas y clínica en rehabilitacion bucal- Tomo 2- Editorial Hacheace-2002

Hector Alvarez Cantoni-Norberto Fassina

2-OCCLUSIÓN Y DIAGNÓSTICO EN REHABILITACIÓN BUCAL - Editorial Panamericana.-1999

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ADDITIONAL BIBLIOGRAPHY

1- EVALUACION, DIAGNÓSTICO Y TRATAMIENTO DE LOS PROBLEMAS OCLUSALES- Editorial Salvat-1991

Peter Dawson

2-OCCLUSION Y AFECCIONES TEMPOMANDIBULARES-Edit.Doyma-1995

J. Okeson

3- PRÓTESIS COMPLETA.-Edit.Esselvier-2007

B. Koeck

4-TRATAMIENTO DEL DESDENTADO COMPLETO-Edit. Mundi

T. Schavartz-H. Capuselli.

5- DESOCLUSIÓN- Edit. Quintassence-2020

Anibal Alonso



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☐ Kaltura

Explanation about the practical sessions:

En caso de imposibilidad de realizar las prácticas presenciales, se realizarán por Teams



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System:

No hay modificación del sistema de evaluación