Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480501 **Name:** Oral Surgery II - Implantology

Credits: 6,00 **ECTS Year:** 5 **Semester:** 2

Module: Module 4: Dental Pathology and Therapeutics

Subject Matter: DENTAL PATHOLOGY **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 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

Previous knowledge of Oral Surgery, Anatomy and Anesthesia

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	Searches for information in bibliographic sources and knows how to analyze them.
R2	Makes an adequate clinical history.
R3	Knows the different parts of the physical examination of the patients.
R4	The student is capable of making a diagnostic judgement based on the data from the anamnesis and examination.
R5	The student is capable of optimizing the use of diagnostic and therapeutic resources.
R6	Demonstrates the knowledge of the instruments, material and drugs used in the different treatments of oral surgery.
R7	Knows how to make clear and relevant medical records and conduct thorough clinical examinations to identify the patient who is amenable to implant treatment.
R8	Knows the appropriate anesthesia techniques for each treatment.
R9	Performs a correct asepsis of the personnel, instruments, surfaces and isolation of the operating field.
R10	Knows how to use and interpret the different diagnostic methods used in oral surgery.
R11	Knows the instruments and materials commonly used in oral surgery.
R12	The student is able to assemble the anesthesia syringe.
R13	The student uses each instrument correctly.
R14	Knows how to take a detailed clinical history of the patient, identifying his or her pathologies and drawing up the appropriate treatment plan.

R15	Defines the concept of dental implants and the basic principles of osseointegration.
R16	Applies the knowledge of the basic sciences of the subject to the diagnosis and treatment of the partial and total edentulous patient.
R17	Demonstrates the knowledge of the instruments, materials and that are used in the different treatments of oral implantology.
R18	Knows the adequate anesthesia techniques in each treatment.
R19	Knows the complications and accidents in the practice of implantology.
R20	Knows how to use and interpret the different diagnostic methods used in oral surgery.
R21	Knows how to handle the different radiological techniques and their use in implantology.
R22	Knows how to identify the different anatomical structures in radiology
R23	Prepares an implant treatment plan after the radiological study.
R24	Formulates a treatment plan, surgical and prosthetic, appropriate for each case of edentulism.
R25	Selects the appropriate prosthetic attachments and therapeutic procedures in each case, taking into account their indications and contraindications.
R26	Knows about and simulates the placement of a dental implant in phantoms, following the drilling sequence recommended by each system.
R27	Conducts a correct asepsis of the personnel, instruments, surfaces and isolation of the operating field.
R28	Demonstrates sound knowledge on professional practice of oral implantology on scientific criteria and is initiated in the scientific method and in the handling of scientific information.
R29	The student is able to complete a complete clinical history and make a full clinical judgment.
R30	The student is able to work in a team.

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 a Capacity for analysis and synthesis			x	
CG2 I b Organizational 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 2 Obtain and prepare a medical history containing all relevant information.				x
CE C 2 Knowing 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 2 Be 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 C 2 Establish the diagnosis, prognosis and adequate therapeutic planning in all clinical areas of dentistry, being competent in the diagnosis, prognosis and elaboration of the dental treatment plan of the patient requiring special care, including medically compromised patients (such as diabetics, hypertensive, immunosuppressed, anticoagulated, among others) and patients with disabilities.				x
CE C 2 Recognize life-threatening situations and know how to perform basic life support maneuvers.			x	

CE D 2	Know 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 2	Know 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 2	Plan 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	
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
	40,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	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.
	15,00%	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.
	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

PRACTICAL ASSISTANCE:
Attendance to practices (2 clinical and 6 seminars) is Mandatory.
YOU CAN ONLY MISS (1) PRACTICE IN A JUSTIFIED WAY
IF THE MAXIMUM NUMBER OF ABSENCES ALLOWED (2) NO JUSTIFIED ARE EXCEEDED, STUDENT WILL BE SUBMITTED DIRECTLY TO THE 2nd EXAMINATION CALL.
IF THE STUDENT HAS MORE THAN (3) ABSCENCES NO JUSTIFIED, HE WILL HAVE TO DO THE SUBJECT AGAIN THE NEXT YEAR.
THE STUDENT HAS THE OBLIGATION TO COMPLY WITH THE REGULATIONS OF UCV CLINICS (BOTH IN LABORATORY AS IN CABINET),
- CLOTHING
- CARE OF FACILITIES,
- BEHAVIOR,
ITS NON-COMPLIANCE WILL RESULT IN A SANCTION/EXPULSION FROM THE PRACTICE,

AND WILL COUNT AS A NON-ATTENDANCE.
THE STUDENT MUST HAVE THE NECESSARY LANGUAGE COMPETENCES FOR THE CARE OF PATIENTS IN CLINICAL PRACTICES.

SUBJECT EVALUATION: To pass the course, the student must meet the following minimum requirements:
Mandatory attendance at practices, the UNjustified absence of 2 practices will make it impossible for the student to take the exam on the first call.
Carry out bibliographic review work and pass with a grade higher than 5.
Pass the theoretical and practical exam (both exams independently, they must have a grade higher than 5).
The exam will be multiple choice with 5 answers for each question, where every incorrectly answered question will subtract 0,33. It will have a theoretical section and a practical one that must be passed independently with a grade higher than 5.
THE NOTE OF EACH PARTY IS NOT SAVED FOR THE SECOND CALL
Students must present the review work and the practice notebook to access the theoretical exam. If you do not present it, you will directly access the second call.
For the second call, only the note of the bibliographic review will be kept.
Students who fail the subject must complete it next year. The practice grade will NOT be saved.

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	R7, R8, R9, R10, R11, R15, R16, R17, R18, R19, R23, R24	24,00	0,96
PRACTICAL CLINICAL SESSION M2, M3	R2, R3, R4, R6, R7, R9, R10, R11, R12, R13, R14, R17, R18, R24, R25, R27	8,00	0,32
SEMINAR M3	R11, R17, R20, R21, R22, R23, R24, R25, R26	24,00	0,96
TUTORING M1, M2, M3, M4	R17, R23, R24, R28, R29	2,00	0,08
EVALUATION M1, M2, M3, M4	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	2,00	0,08
TOTAL		**60,00**	**2,40**

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M2, M3	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	80,00	3,20
GROUP WORK M4	R28, R29, R30	10,00	0,40
TOTAL		**90,00**	**3,60**

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
1	Unit 1 Basic foundations of Implantology Unit 2 Biology of Osseointegration. Unit 3 Implantological Anatomy. Unit 4. Diagnosis and planning of implant treatment
2	Unit 5. Indications and contraindications of treatment with implants Unit 6. Treatment Plan: Prosthetic Options. Unit 7. Preparation for surgical intervention Unit 8. Basic surgical intervention
3	Unit 9. Prostheses on implants Unit 10. Clinical cases and images
4	Unit 11. Odontogenic infections Unit 12 Odontogenic and non-odontogenic tumors Unit 13. Cysts of the jaws

Temporary organization of learning:

Block of content	Number of sessions	Hours
1	11,00	22,00
2	11,00	22,00
3	5,00	10,00
4	3,00	6,00

References

UPDATED RECOMMENDED BLIOGRAPHY:

·Donado. Cirugía bucal 5ª edición. 2019
·MISCH. IMPLANTOLOGÍA CONTEMPORÁNEA (4ª ED.) 2020
·Misch Complicaciones en Implantología Oral Misch, C. Resnik, R. 1ª Edición Mayo 2018
·Prótesis dental sobre implantes . 2 edition Carl E. Misch 2015
·TRATADO DE CIRUGIA BUCAL (T. 1). Cosme Gay.2003
·CIRUGIA BUCAL. Miguel Peñarrocha Diago. 2000
·ANESTESIA BUCAL 2ª ED Adel Alfonso Martínez Martínez. 2010
·Netter.Anatomía de cabeza y cuello para odontólogos 2017
· EL AUMENTO VERTICAL Y HORIZONTAL DE LA CRESTA - Dr. Istvan Urban **Nº Edición:** 1ª/ 2018
·Bone and Soft Tissue Augmentation in Implantology Fouad Khoury 2022