

1. BASIC INFORMATION

Course	PATOLOGÍA MEDICO QUIRÚRGICA BUCAL I
Degree program	DENTISTRY
School	HEALTH SCIENCES
Year	THIRD
ECTS	6 ECTS
Credit type	MANDATORY
Language(s)	SPANISH/ENGLISH
Delivery mode	IN-PERSON
Semester	FIRST SEMESTER
Academic year	2024/2025
Coordinating professor	Celia Carrillo

2. PRESENTATION

Contextualization of the contents

It represents the most medical subject of Dentistry. The diseases of the oral mucosa, the salivary glands and the maxillary bones, as well as the oro-facial nervous pathology, will be studied. The students will acquire the knowledge of the different pathologies and systemic diseases and those that from the mouth can give some manifestation in another organ or body system.

Contextualization of the competences.

The intention of this subject is to know the pathology of the oral mucosa, maxillary bones and adnexal tissues so that the student can know the ethology, recognize the symptoms, interpret the results obtained through complementary tests and be able to reach a diagnosis and formulate a treatment and a prognosis of patients.

3. COMPETENCIES AND LEARNING OUTCOMES

Basic skills:

- CB2: Students will know how to apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the elaboration and defend the arguments and the resolution of problems within their area of study.
- CB3: Students will have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific, or ethical issues.
- CB5: Students be able to develop the necessary learning skills to undertake subsequent studies with a high degree of autonomy.

General competences:

- CG14: Knowledge of the general processes of the disease, including infection, inflammation, alterations of the immune system, degradation, neoplasia, metabolic disorders, and genetic disorders.
- CG25: Ability to 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 minimal invasion and on a global and integrated approach to oral treatment.
- CG26: Ability to know how to plan and perform multidisciplinary, sequential, and integrated dental treatments of limited complexity in patients of all ages and conditions and patients requiring special care.
- GC27: Ability to propose and propose appropriate preventive measures for each clinical situation.
- CG30: Ability to recognize the role of the dentist in prevention and protection actions against oral diseases, as well as in the maintenance and promotion of health, both at the individual and community level.
- CG4: Understand and recognize the social and psychological aspects relevant to the treatment of patients.

Cross-disciplinary competences:

- CT1: Responsibility: That the student can assume the consequences of the actions to be performed and respond to their own actions.
- CT3: Awareness of ethical values: The student's ability to feel, judge, argue and act according to moral values in a coherent, persistent, and autonomous way.
- CT7: Teamwork: That the student can participate in an active way in the achievement of a common goal, listening, respecting, and valuing the ideas and proposals of the rest of the members of his team.
- CT8: Initiative: That the student is able to anticipate proactively proposing solutions or alternatives to the situations presented.

Specific competences:

- CE34: Perform basic treatments of the oral and dental pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasion and on a global and integrated approach to the oral-dental treatment.
- CE35: Diagnose, plan and perform, in general, a multidisciplinary, sequential and integrated treatment of limited complexity in patients of all ages and conditions and in patients with special needs (diabetic, hypertensive, oncological, transplanted) / as, immunosuppressed, anticoagulated, among others) or disabled. Specifically, the dentist must be competent in the establishment of a diagnosis, a prognosis and the development of adequate therapeutic planning, and particularly in orofacial pain, temporo-mandibular disorders, bruxism and other parafunctional habits; dental and periapical pathology; bucco-dental trauma; Periodontal pathology and peri-implant tissues; bone pathology of the jaws, buccal soft tissues and attached glands; stages of partial or total edentation and in the planning of their rehabilitation treatment through dento and mucosal-supported prostheses, or through dental implants, malpositions and / or dental malocclusions and other anatomical or functional alterations of the face or stomatognathic system and their possible corrections orthodontic, orthopaedic or surgical.
- CE36: Take and interpret radiographs and other procedures based on the image, relevant in dental practice.
- CE40: Assess the motor and sensory function of the mouth, jaws, and annexes.

- CE41: Perform limited procedures of invasive diagnostic techniques in soft tissues (biopsies).
- CE42: Be competent in the appropriate prescription of drugs, knowing their contraindications, interactions, systemic effects, and repercussions on other organs.
- CE43: Apply locoregional anaesthesia techniques.
- CE48: Perform simple surgical procedures: removal of erupted temporary and permanent teeth, fractured or retained roots and uncomplicated surgical removal of unerupted teeth and simple pre-prosthetic surgery procedures.

Learning outcomes:

- RA1: Make a clinical history that allows the student to identify systemic problems (cardiovascular, haemorrhagic, allergic, etc.) that can modify the dental treatment and may endanger the patient's life.
- RA2: Acquire knowledge and experience in all clinical methods of exploration.
- RA3: Diagnose diseases with medical treatment of the oral mucosa, maxillary bones, salivary glands, and other adjoining tissues.
- RA4: Know in depth the systemic diseases with oral repercussion.
- RA5: Perform the early and preventive diagnosis of general diseases with orofacial repercussion.
- RA6: Lists the stages of the surgical act and the factors that condition it.
- RA7: Recognized clinically and radiographically the different oral pathologies in relation to surgery. Recognize the error's consequences in the taking of x-rays and ways of correction.
- RA8: Practice correctly incisions and basic sutures in animal models.
- RA9: Argue the different diagnostic choices and surgical techniques.
- RA10: Practice extractions of different degrees of complexity and apicectomies in inorganic models.
- RA11: Argue the different surgical treatment plans in patients with various underlying pathologies regarding the content of the theoretical classes.

The table below shows the relationship between the competences developed in the subject and the learning outcomes that are pursued:

Competencies	Learning Outcomes
CE35, CE42, CE40, CE35	RA1
CE40, CE36, CE35, CE34	RA2
CE41, CE40, CE35, CE34, CE42	RA3
CE42, CE35, CE48	RA4
CE34, CE35, CE36	RA5
CE34, CE48	RA6
CE36, CE40	RA7
CE48	RA8
CE34, CE35	RA9
CE48, CE43	RA10
CE35, CE42	RA11

4. CONTENT

The subject is organized into six learning units (L.U.), which, are divided into topics (depending on the sub-units).

TOPIC UNIT 1: **EXPLORATION AND DIAGNOSIS.**

TOPIC Q1:

- 1.1. Clinical history and exploration.
- 1.2. Supplementary tests.
- 1.3. Radiological examination: History and importance of dento-bucco-facial techniques.

TOPIC Q2:

- 2.1. Radiographic anatomy:

2.1.1. Anatomical images.

2.1.2. Interpretation.

2.2. Extrabuccal radiographic techniques.

2.3. Intraoral radiographic techniques:

2.3.1. Panoramic radiography.

2.3.2. Other: Waters, C.A.T., Dentascan, other techniques.

TOPIC UNIT 2: ANAESTHESIA

TOPIC Q3:

3.1. Pharmacological recall of local anaesthetics

3.2. Vasoconstrictor and other additives.

3.3. Indications.

TOPIC Q4:

4.1. Instrumental

4.2. Local anaesthesia techniques in Dentistry.

4.3. Anatomical memory of the innervation of the maxilla.

4.4. Local anaesthetic techniques in upper jaw.

TOPIC Q5:

5.1. Anatomical memory of the mandibular innervation.

5.2. Local anaesthetic techniques mandibular

5.3. Accidents and complications of local anaesthesia.

5.4. Other anaesthesia techniques:

5.4.1. General anaesthesia in Oral Surgery

5.4.2. Sedation in Oral Surgery

5.4.3. Local anaesthesia in Children's Oral Surgery

TOPIC UNIT 3: EXODONTIA

6.1. Tooth extraction Concept. Indications and contraindications.

6.2. Anatomy applied to the exodontia.

6.3. Exodontia Instruments:

6.3.1. Material description.

6.3.2. Characteristics of forceps and elevators: Maxilla.

6.3.3. Characteristics of forceps and elevators: Mandible.

TOPIC Q7:

7.1. Exodontia techniques in permanent and temporary teeth.

7.2. Handling the opposite hand in each situation.

TOPIC Q8:

8.1. Accidents and complications in exodontia: immediate complications. Prophylaxis and treatment.

8.2. Accidents and complications in exodontia: mediate complications. Prophylaxis and treatment.

TOPIC UNIT 4: SURGICAL ACT

TOPIC Q9

9.1. The Surgical Act.

9.2. Equipment, instruments, and materials in Oral Surgery.

9.3. Sterilization and maintenance of sterile instruments.

9.4. Phases of the surgical act:

9.4.1. Pre-operative

9.4.2. Pre-operative: behaviour in the surgery room.

9.4.3. Post-operative: care of the operated patient.

9.5. Incisions and flaps.

9.6. Sutures Materials and techniques

9.7. Scar process

TOPIC Q10:

10.1. Surgical or complicated extractions: Ostectomy, Odontosection.

10.2. Root extraction.

10.3. Biopsy. Concept.

10.3.1. Types and techniques.

10.3.2. Indications.

10.3.3. Communication with the pathologist.

TOPIC Q11:

11.1. Oral Surgery in special patients.

11.2. Complications in Oral Surgery:

11.2.1. Local complications Prevention and treatment

11.2.2. General complications Prevention and treatment

11.3. Advanced Techniques in Oral Surgery. General concepts.

11.3.1. Piezoelectric Surgery and Oral Surgery

11.3.2. Laser and Oral Surgery

TOPIC UNIT 5: DENTAL RETENTION

TOPIC Q12:

12.1. Dental retention: Concept, epidemiology and factors that influence tooth retention.

12.2. Pathology of the third molar. Concept.

12.1.1. Anatomic-embryological considerations.

12.2.1. Clinical phenomenology.

TOPIC Q13:

13.1. Pathology of the lower third molar:

13.1.1.1. Diagnosis.

13.1.1.2. Therapeutic approach

13.1.3. Surgical technique.

13.1.4. Complications

13.2. Pathology of the upper third molar:

13.2.1. Diagnosis.

13.2.2. Therapeutic approach

13.2.3. Surgical technique.

13.2.4. Complications.

TOPIC Q14:

14.1. Included Canines.

14.1.1. Etiopathogenetic

14.1.2. Clinic.

14.1.3. Diagnosis.

14.1.4. Therapeutic possibilities and complications.

14.2. Other included teeth:

14.2.1. Diagnosis.

14.2.2. Treatment.

14.2.3. Surgical-orthodontic treatment

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies that will be applied are indicated below:

- Master class
- Case method
- Cooperative learning
- Problem-based learning (PBL)
- Project-based learning
- Simulation environments.

6. LEARNING ACTIVITIES

It will be mandatory to pass this subject to be able to do Oral Surgery IV.

The training activities that will be carried out and the dedication in hours of the student to each of them are identified:

Learning activity	Number of hours
Tutorials	18
Master lessons	20
Vitual Master lessons	6
Portfolio	2
Groupal work	2
Practical excercises	10
Cases analysis	10
Laboratory practices	38
Investigation	1,5
Study and individual work	41
Knowledge presential asesments	1,5
total	150

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Assessment system	Weight
Theoretical Knowledge Evaluation	30%
Preclinical practices	20%
Debates	10%
Portfolio	10%
Practical excercises	10%
Case/Problem	20%

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

7.1. Ordinary call

To pass the course in the first exam period, you must obtain a grade greater than or equal to 5.0 out of 10.0 in the final grade (weighted average) of the course.

In any case, it will be necessary to obtain a grade greater than or equal to 5.0, independently, in each of the evaluation systems that make up the course.

The Universidad Europea de Valencia establishes continuous assessment as a system of evaluation of knowledge, skills and basic, general, transversal and specific competences of the degree in Dentistry, in accordance with the provisions of the Regulations for the evaluation of undergraduate degrees. In this regard and for the purposes of the consumption of calls the student should be aware that, if any evaluation system provided in the Learning Guide, in the ordinary call the student will have an overall grade of the subject, thus consuming call.

According to the aforementioned Regulations, students taking face-to-face degree courses are required to justify at least 50% of class attendance, as a necessary part of the evaluation process and in the case of theoretical or practical classes determined as mandatory by the teacher in the schedules of the subject, the student must register an attendance of 90%, whether the absence is justified or not. The lack of accreditation by the means proposed by the University will entitle the professor to grade the subject as failed in the ordinary call, according to the grading system.

Punctuality will be required, 3 delays of more than 15 minutes or departures before class will be counted as a lack of attendance.

The student must consult in the schedule of the course in the Virtual Campus the sessions of compulsory attendance in the classroom.

The mention of "Matrícula de Honor" will be awarded to students who have obtained a grade equal to or higher than 9.0. Their number may not exceed 5% of the students enrolled in each subject in the corresponding academic year, unless the number of students enrolled is less than 20, in which case only one honorary registration may be awarded.

7.2. Second exam period

To pass the course in the second exam period, you must obtain a grade higher or equal to 5.0 out of 10.0 in the final grade (weighted average) of the course.

In any case, it will be necessary to obtain a grade greater than or equal to 5.0 in the final test, so that it can be averaged with the rest of the activities.

The Universidad Europea de Valencia establishes the continuous evaluation as a system of assessment of knowledge, skills and basic, general, transversal and specific competences of the degree in Dentistry, in accordance with the provisions of the Regulations for the evaluation of undergraduate degrees. In this regard and for the purposes of the consumption of calls the student should be aware that in the extraordinary call will be the Objective Test of Knowledge (POC) which determines whether or not to consume call and in the exceptional case that only has pending to overcome evaluation system /s that are not the POC, will be considered NP if not presented and will obtain a numerical grade if you present at least one of them.

Pursuant to the aforementioned Regulations, students taking face-to-face degree courses are required to justify at least 50% of class attendance, as a necessary part of the evaluation process, and in the case of theoretical or practical classes determined as mandatory by the teacher in the schedules of the subject,

the student must register an attendance of 90%, whether the absence is justified or not. Those students who, due to non-compliance with this requirement, must appear in the extraordinary call, must perform as many activities or knowledge tests determined by the teacher to recover this part and its corresponding overcoming based on the specified rubric.

8. SCHEDULE

This table shows the delivery deadline for each assessable activity in the course:

Assessable activities	Deadline
1rst Activity 1: Theoretical knowledge evaluation	
2nd Activity: Pre-Clinical Practices	
3rd Activity: Debates	
4rth Activity: Portfolio	
5th Activity: Practical exercises	
6th Activity: Case/Problem	

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any change as and when appropriate.

9. BIBLIOGRAFÍA

The essential recommended bibliography is listed below:

- Donado Rodríguez, M. (2019). **Cirugía bucal: patología y técnica**. Barcelona: Elsevier Masson.
- Gay, C. (2015). **Tratado de Cirugía Bucal**. Madrid: Ergon.
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- Berini, L. (2001). **Anestesia odontológica**. Madrid: Avances Médico-Dentales.
- Bagán Sebastian, JV. (2010). **Medicina Bucal**. Valencia: Medicina Oral.
- Norton, N S. (2018). **Anatomía de cabeza y cuello para odontólogos**. Barcelona: Elsevier Masson.
- Hupp, J R. (2014). **Contemporary oral and maxilofacial surgery**. Saint Louis: Mosby Elsevier.

The following is the supplementary recommended bibliography:

- Peñarrocha, M. (2000). **Cirugía Bucal**. Valencia: Promolibro.

- Bullón Fernández, P. (2004). **Tratamiento odontológico en pacientes especiales**. Madrid: Laboratorios Normon.
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- Horch, HH. (1995). **Cirugía oral y maxilofacial. Tomos I y II**. Barcelona: Masson.
- Laskin, DM. (1987). **Cirugía Bucal y Maxilofacial**. Buenos Aires: Ed. Panamericana.
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- Pifarré, E. (1993). **Patología Quirúrgica Oral y Maxilofacial**. Barcelona: Ed Jims.
- García Marín, F. (2006). **Protocolos clínicos de la Sociedad Española de Cirugía Oral y Maxilofacial**. Madrid: Sociedad Española de Cirugía Oral y Maxilofacial.
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- Stübinger, S. (2020). **Lasers in Oral and Maxillofacial Surgery**. Cham: Springer International Publishing: Impring: Spriger.
- Ferneini, E. (2019). **Office-Baed Maxillofacial Surgical Procedures. A step-by-step approach**. Cham: Springer International Publishing: Impring: Spriger.
- Cawon, R.A. (2009). **Fundamentos de medicina y patología oral**. Ámsterdam: Barcelona: Elsevier

10. EDUCATIONAL GUIDANCE, DIVERSITY AND INCLUSION UNIT

From the Educational Guidance, Diversity and Inclusion Unit we offer support to our students throughout their university life to help them reach their academic achievements. Other main actions are the students inclusions with specific educational needs, universal accessibility on the different campuses of the university and equal opportunities.

From this unit we offer to our students:

1. Accompaniment and follow-up by means of counselling and personalized plans for students who need to improve their academic performance.
2. In terms of attention to diversity, non-significant curricular adjustments are made in terms of methodology and assessment for those students with specific educational needs, pursuing an equal opportunities for all students.
3. We offer students different extracurricular resources to develop different competences that will encourage their personal and professional development.
4. Vocational guidance through the provision of tools and counselling to students with vocational doubts or who believe they have made a mistake in their choice of degree.

Students in need of educational support can write to us at:
orientacioneducativa.uev@universidadeuropea.es

11. ONLINE SURVEYS

Your opinion matters!

The Universidad Europea encourages you to participate in several surveys which help identify the strengths and areas we need to improve regarding professors, degree programs and the teaching-learning process.

The surveys will be made available in the “surveys” section in virtual campus or via e-mail.

Your assessment is necessary for us to improve.

Thank you very much for your participation.