

1. BASIC INFORMATION

Course	Oral Medical-Surgical Pathology II
Degree program	Degree in Dentistry
School	Faculty of Health Sciences
Year	Third
ECTS	6 ECTS (150 hours)
Credit type	Mandatory
Language(s)	English / Spanish
Delivery mode	In person
Semester	Second semester
Academic year	2024-2025
Coordinating professor	Cristina Marzal Gamarra

2. PRESENTATION

This is the most medical subject in Dentistry. It is the first subject of the module where students will study in depth the diseases of the oral mucosa, salivary glands and maxillary bones, as well as orofacial nerve pathology. Students will acquire knowledge of the different systemic pathologies and diseases and those that can manifest themselves in other organs or body systems from the mouth.

3. COMPETENCIES AND LEARNING OUTCOMES

Core competencies:

- CB2 - Students are able to apply their knowledge to their work or vocation in a professional manner and possess the competences usually demonstrated through the development and defence of arguments and problem solving within their field of study.
- CB3 - Students have the ability to gather and interpret relevant data (usually within their area of study) in order to make judgements that include reflection on relevant social, scientific or ethical issues.
- CB5 - Students have developed the learning skills necessary to undertake further studies with a high degree of autonomy.

General competences:

- CG4 - Understand and recognise the social and psychological aspects relevant to the treatment of patients.
- GC14 - Knowledge of general disease processes including infection, inflammation, immune system disorders, degeneration, neoplasia, metabolic disorders and genetic disorders.
- GC25 - Ability to understand and apply the basic treatment of the most common oral and dental pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasiveness and a comprehensive and integrated approach to oral

treatment

- CG26 - Ability to plan and perform multidisciplinary, sequential and integrated dental treatment of limited complexity for patients of all ages and conditions and for patients requiring special care.
- CG27 - Ability to plan and propose preventive measures appropriate to each clinical situation.
- CG30 - Ability to recognise the role of the dentist in the prevention and protection against oral diseases, as well as in the maintenance and promotion of health, both at individual and community level

Cross-curricular competencies:

- TC1 - Responsibility: Students must be able to assume the consequences of their actions and be accountable for their own actions.
- TC3 - Awareness of ethical values: The student's ability to feel, judge, argue and act in accordance with moral values in a coherent, persistent and autonomous way.
- CT7 - Teamwork: The student is able to participate actively in the achievement of a common objective, listening to, respecting and valuing the ideas and proposals of the other members of the team.
- CT8 - Initiative: The student must be able to anticipate proactively, proposing solutions or alternatives to the situations presented.

Specific competencies:

- CE34 - Perform basic treatment of oral-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 oral-dental treatment.
- CE35 - Diagnose, plan and carry out, in general, multidisciplinary, sequential and integrated treatment of limited complexity in patients of all ages and conditions and in patients with special needs (diabetics, hypertensive, oncological, transplanted, immunodepressed, anticoagulated, among others) or disabled patients. Specifically, the dentist must be competent in establishing a diagnosis, a prognosis and the development of an adequate therapeutic planning, and in particular in orofacial pain, temporomandibular disorders, bruxism and other parafunctional habits; dental and periapical pathology; oral and dental trauma; periodontal pathology and peri-implant tissues; bone pathology of the jaws, oral soft tissues and adjoining glands; partial or total edentation and in the planning of their rehabilitation treatment by means of dental and mucosa-supported prostheses or dental implants, dental malposition and/or malocclusion and other anatomical or functional alterations of the face or the stomatognathic system and their possible orthodontic, orthopaedic or surgical corrections.
- CE36 - Take and interpret radiographs and other image-based procedures relevant to dental practice.
- CE37 - Make diagnostic models, mount them and take inter-occlusal recordings.
- CE38 - Determine and identify the aesthetic requirements of the patient and the possibilities of satisfying their concerns.
- CE39 - Identify patients requiring special care, recognising their characteristics and peculiarities.
- CE40 - Assess the motor and sensory function of the mouth, jaws and appendages.
- CE41 - Perform limited procedures of invasive diagnostic techniques in soft tissues (biopsies).
- SC42 - Is competent in the appropriate prescription of drugs, knowing their contraindications, interactions, systemic effects and repercussions on other organs.
- SC43 - Apply loco-regional anaesthesia techniques.
- SS44 - Prepare and isolate the operative field.
- CE45 - Identify, assess and attend to medical emergencies and emergencies that may arise during clinical practice and apply cardiopulmonary resuscitation techniques; manage acute infections, including pharmacological prescription and simple surgical aspects.
- CE46 - Identify and attend to any dental emergency.

- CE47 - Perform both medical and surgical treatment of common oral soft tissue diseases.
- CE48 - Perform simple surgical procedures: extraction of erupted primary and permanent teeth, fractured or retained roots and uncomplicated surgical extraction of unerupted teeth and simple pre- prosthetic surgical procedures.
- CE49 - Treat dento-alveolar trauma in primary and permanent dentition.
- CE50 - Treat both pharmacologically and surgically inflammatory processes of periodontal and/or peri- implant tissues including supra- and subgingival periodontal instrumentation techniques.
- CE51 - Assess and treat the patient with caries or other non-cariou dental pathology and be able to use all materials aimed at restoring the form, function and aesthetics of the tooth in patients of all ages.
- CE52 - Design, prepare teeth, prescribe, record, perform clinical trials and place and commission indirect restorations: inlays, veneers or aesthetic laminate fronts and single crowns.
- CE53 - Operationally treat destructive processes and traumatic dento-alveolar lesions.
- CE54 - Perform endodontic treatments and apply procedures to preserve pulp vitality.
- CE55 - Perform conventional aesthetic procedures from a multidisciplinary perspective.
- SC56 - Treat both partial and total edentulism, including biological design (specific design features), tooth preparation, record keeping, clinical trials and patient fitting of removable partial and complete dentures, simple dento-supported bridges and simple implant-supported prostheses, both removable and fixed, including "fitting" and "commissioning".
- SC57 - Drawing up prescriptions for customised medical devices "dental prostheses" and "orthodontic and orthopaedic dento-facial appliances".
- CE58 - Perform non-surgical treatment of temporomandibular disorders and oro-facial pain.
- CE59 - Perform the oral-dental treatment of paediatric patients and recognise their characteristics and peculiarities.
- CE60 - Identify and correct oral habits likely to cause or exacerbate malocclusions.
- SC61 - Plan, determine the specific design features, records, prescription, clinical testing, fitting and clinical adjustment for commissioning of fixed and removable space maintainers and interceptive orthodontic techniques as well as active removable elements intended to shift teeth or correct crossbites.

Learning outcomes:

- RA1: Takes a medical history that enables him/her to identify systemic problems (cardiovascular, haemorrhagic, allergic, etc.) that may modify the dental treatment and may endanger the patient's life.
- RA2: Acquires knowledge and experience in all clinical examination methods.
- RA3: Diagnose medically treatable diseases of the oral mucosa, maxillary bones, salivary glands and other adjoining tissues.
- RA4: Has an in-depth knowledge of systemic diseases with oral repercussions.
- It carries out prevention and early diagnosis of general diseases with orofacial repercussions.
- RA5: Acquires knowledge and evaluates the epidemiological characteristics of DCM and DCF;
- RA6: List the stages of the surgical procedure and the factors that condition it.
- RA7: Recognises clinically and radiographically the different oral pathologies in relation to surgery. RA8: Recognises the consequences of errors in taking radiographs and their correction.
- RA9: Correctly practice basic incisions and sutures on animal models.
- RA10: Reasons the choice of different diagnostic and surgical techniques.
- RA11: Performs exodontia of different degrees of complexity and apicoectomies on inorganic models.
- RA12: Reasons the choice of different surgical treatment plans in patients with various underlying pathologies at the level of the content covered in class.
- RA13: Develops a diagnostic and treatment sequence for oral lesions.
- RA14: Develops a diagnostic protocol and surgical treatment plan with different

- possibilities for replacement with dental implants.
- RA15: Acquires knowledge of the dental management of patients with systemic pathology and with physical and psychological impairment problems.

The following table shows the relationship between the competencies developed during the course and the learning outcomes pursued:

Competencies	Learning outcomes
CB2, CB3, CB5	RA2: Acquires knowledge and experience in all clinical examination methods.
CG4, CG14, CE34, CE39	RA15: Acquires knowledge of the dental management of patients with systemic pathology and with problems of physical and psychological deficiencies. RA14: Develops a diagnostic protocol and surgical treatment plan with different possibilities for replacement with dental implants. RA5: Performs prevention and early diagnosis of diseases with orofacial repercussions.
GC25	RA3: Diagnose medically treatable diseases of the oral mucosa, maxillary bones, salivary glands and other adjoining tissues.
GC27, GC30	RA5: Performs prevention and early diagnosis of general diseases with orofacial repercussions.
CE35, CE42, CE47	RA1: - Takes a clinical history that enables him/her to identify systemic problems (cardiovascular, haemorrhagic, allergic, etc.) that may modify the dental treatment and may endanger the patient's life. RA2: Acquires knowledge and experience in all clinical examination methods. RA3: Diagnose medically treatable diseases of the oral mucosa, maxillary bones, salivary glands and other adjoining tissues. RA12: Reasons the choice of different surgical treatment plans in patients with various underlying pathologies at the level of the content covered in class. RA15: Acquires knowledge of the dental management of patients with systemic pathology and with physical and psychological impairment problems.
EC36	RA8: Recognises clinically and radiographically the different oral pathologies in relation to surgery. Recognises the consequences of errors in radiography and their correction.

4. CONTENT

The subject is organised into two learning units, which in turn are divided into topics TOPIC UNIT

1: INTRODUCTION TO MEDICAL PATHOLOGY

Theme M 1. Educational planning. Concept. Epidemiology. Objectives. Semiology and propaedeutics Topic M2. Functions of the stomatognathic apparatus. Morphofunctional memory of the oral cavity. Topic M3. Clinical history in Oral Medicine. Anamnesis.

Topic M4. Intra-buccal examination in PMB and Extra-buccal clinical examination in PQB

Topic M5. Complementary tests in Oral Medicine. Morphological tests. Biopsy, cytology, microbiological

cultures.

Topic M6a. Complementary tests in Oral Medicine. Most relevant biochemical and immunological tests. Indications

Topic M6b. Pathophysiology of the oral mucosa with a focus on the discovery of alterations

Topic M7. Elementary oral mucosal lesions

THEMATIC UNIT 2: PATHOLOGY OF THE ORAL MUCOSA

Topic M8. Injuries caused by physical agents

Topic M9. Injuries caused by chemical agents

Topic M10. Dyschromia and exogenous pigmentation of the oral mucosa.

Topic M11. Endogenous dyschromias. Differential diagnosis of pigmentary alterations.

Topic M12. Red lesions on the buccal mucosa. Differential diagnosis

Topic M13. White lesions of the oral mucosa. Differential diagnosis

Topic M14. Superficial fungal infections of the oral mucosa

Topic M15. Deep fungal infections and oral cavity.

Topic M16. Bacterial infections of the oral mucosa I

Topic M17. Bacterial infections of the oral mucosa II

Topic M18. Viral infections of the oral mucosa (I)

Topic M19. Viral infections of the oral mucosa (II)

Topic M20. Aphthous ulcers of the oral mucosa.

Topic M21. Differential diagnosis of ulcerative lesions

Topic M22. Immunological diseases. Lichen planus

Topic M23. Blistering lesions of the buccal mucosa (I)

Topic M24. Blistering lesions of the buccal mucosa (II)

Topic M25. Exophytic lesions. Tumours and pseudotumours

Topic M26. Pre-tumoral lesions. Leukoplakia

Topic M27. Pre-tumoural lesions

Topic M28. Mucosal cancer (I)

Topic M29. Mucosal cancer (II)

Topic M30. Pathology of the tongue

Topic M31. Pathology of the lips

Topic M32. Pathology of the floor of the mouth

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Masterclass
- Case method
- Cooperative learning
- Problem-based learning (PBL)
- Simulation environments

6. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Campus-based mode:

Learning activity	Number of hours
Master classes	20 h
Portfolio	2 h
Virtual classes	4 h
Group work	3 h
Practical exercises	15,5 h
Laboratory practicals	35 h
Analysis of cases	10 h
Tutorials	21 h
Research	2 h
Self-employment	36 h
Knowledge tests	1,5 h
TOTAL	150 h

7. ASSESSMENT

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

Campus-based mode:

Assessment system	Weight
<p>Tests of theoretical knowledge: The tests of theoretical content will consist of multiple-choice questions * and short questions. These objective tests of theoretical content will be considered passed with a minimum score of 5 out of 10. One tests will be held at the end of the semester.</p> <p>*Pending university regulation</p>	40%
<p>Case/problem: Development of theoretical knowledge based on images of clinical cases, which may be an oral or written test. The clinical case analysis test will be considered passed with a score of 5 points out of 10. This clinical case analysis test will take place at the end of the semester, together with the final test of theoretical knowledge. If this test is not passed, it will be made up in an extraordinary exam.</p>	20%
<p>Group work and research (debates): Analysis and in-depth study of the subject and introduction to some of the research problems in oral medical-surgical pathology by means of group activities based on different sources of scientific dissemination. In these activities, initiative and teamwork, integration of information, planning and decision making, problem solving as well as innovation and creativity will be assessed. These competences will be assessed by means of a checklist, allowing a formative and summative evaluation.</p>	15%

<p>Portfolio: Series of clinical cases of patients in which the student will have to answer several questions about them, using the case method. These exercises will be recorded in Blackboard through evaluable activities. In order to pass this part of the course, it is necessary to obtain a grade equal to or higher than the grade obtained in this part of the course. more than 5 out of 10</p>	15%
<p>Simulated pre-clinical exercises: A series of pre-clinical practical activities in which the student will apply theoretical knowledge to clinical practice in oral medicine. In addition, the level of understanding and critical analysis will be assessed using different technological teaching resources, including the Digital Teaching Experience resources. The final mark will be the sum of both parts, and it will be necessary to obtain a mark equal to or higher than 5.0 out of 10.0 in the evaluation system.</p> <p>* 5% internships; 5% questionnaires Digital Teaching Experience</p>	10%

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. First exam period

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 (including the knowledge tests segregated in partial). It may be assessed that the tests of knowledge segregated in partial weighted average from a grade equal to or greater than 4.

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.

In order to pass the course in the ordinary exam, you must obtain a grade higher or equal to 5.0 out of 10.0 in the final grade (weighted average) of the course. You will also need to:

- Obtain a mark of 5.0 out of 10 or higher in the final test of theoretical knowledge.
- Obtain a score of 5.0 out of 10 or higher in the clinical case analysis knowledge test.
- To have actively participated in the analysis and discussion work through group oral communication.
- Have attended and completed at least 50% of the simulated pre-clinical practicals.
- To have submitted the Portfolio to the Blackboard platform.
- Attend and register attendance at 50% of the sessions scheduled for the subject.

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 activities that were not passed in the ordinary exam must be handed in, after having received the corresponding corrections from the teacher, or those that were not handed in.

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
Activity 1. Elementary injuries	Week 3
Activity 2. Medical history	Week 4
Activity 3. Oral lesions due to radiotherapy	Week 5
Clinical cases 1-8	Week 6

Activity 4. Oral injuries due to chemotherapy	Week 7
Activity 5. Complementary tests in Oral Medicine	Week 8
Clinical cases 9-12	Week 9
Activity 6. Use of corticosteroids in oral pathology	Week 10
Clinical cases 13-16	Week 14
Group work	Week 16

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 main reference work for this subject is:

- Bagán JV. (2021) Medicina y Patología Bucal. Medicina Oral, S.L. Valencia

The recommended Bibliography is:

- Bagán JV, Jiménez Y. (2010). **Physiopathology of the salivary glands**. Valencia: Medicina Oral, S.L. 1st Edition.
- Bagán JV. (2010). **Oral Medicine**. Valencia: Medicina Oral, S.L. 1st Edition.
- Scully C. (2010). **Oral and maxillofacial diseases: an illustrated guide to diagnosis and management of diseases of the oral mucosa, gingivae, teeth, salivary glands, jaw bones and joints**. London: Informa Healthcare. 4th Edition.
- Dios, P.D., Scully, C., De Almeida, O.P., Bagan, J., Taylor, A.M. (2017). **Oral medicine and pathology at a glance**. Chichester, West Sussex: Ames, Iowa: John Wiley & Sons, Inc. 2nd edition.
- Cawson, R.A. & Odell, E.W. (2012). **Fundamentals of oral medicine and pathology**. Barcelona: Elsevier, D.L. 8th Edition

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.