

1. BASIC INFORMATION

Course	Bucal Surgical Pathology I
Degree program	Degree in Dentistry
School	Biomedical Sciences
Year	Third
ECTS	6 ECTS/72 h.
Credit type	Trunk Mandatory
Language(s)	Spanish and English
Delivery mode	Attendance
Semester	First semester
Academic year	2024/2025
Coordinating professor	Dra. Stefania Arena
Professor	

2. PRESENTATION

The objective of this Didactic Guide is to guide the student who is taking the course of **Medical Oral Surgical Pathology I (PMQB I)** within the subject of Medical Oral Surgical Pathology, from the Department of Biomedical CC, in the Degree of Dentistry of the European University of Madrid. This discipline is taught in the first semester of the academic year.

Throughout the development of the subject the student acquires both theoretical knowledge and practical skills necessary for the proper interpretation of basic diagnostic methods.

The course schedule combines classroom activities with laboratory practices to allow for the acquisition of integrative knowledge and skills.

It also respects a chronological order that allows the student to progressively acquire knowledge and skills.

In the planning of the PMQB I curriculum, the general and specific competencies suitable for developing the different levels of surgical learning are clearly defined. The course is taught in Spanish and English given the international nature of our European University of Madrid, providing students with sufficient tools to reach a level of knowledge that allows them to develop their professional work internationally.

The ECTS of this subject includes hours of work with the teacher in theory classrooms (master classes, tutorials, resolution of practical exercises) and hours of work in the laboratory in a traditional simulation environment with preclinical practices, seminars and skills assessment tests.

Provides information on content, objectives, activities, methodology, evaluation criteria and other issues of interest to students. Explains what the student should achieve at the end of the course, how to achieve it and how to verify the results.

The subject Buccal Medical-Surgical Pathology I studies indications of surgical therapeutics, medical-surgical materials, oral surgery techniques and dentofacial radiological procedures and techniques.

The subject Buccal Medical-Surgical Pathology I is a **compulsory core subject** and is taught throughout the third year of the Degree in Dentistry, during the 1st semester, **with 6 ECTS credits**.

3. COMPETENCIES AND LEARNING OUTCOMES

Core competencies:

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

Cross-curricular competencies:

- CT1 - Autonomous learning: Process that allows the person to be the author of their own development, choosing the paths, strategies, tools and moments they consider most effective to learn and put into practice independently what they have learned. The autonomous student, in short, selects the best strategies to achieve their learning objectives.
- CT3 - Ability to adapt to new situations: Be able to work under different conditions, different people and in different groups. It involves valuing and understanding different positions, adapting one's own approach as the situation requires.
- CT7 - Awareness of Ethical Values: Ability to think and act according to universal principles based on the value of the person that are directed to their full development and that entails commitment to certain social values.
- CT8 - Information Management: Ability to search, select, analyze and integrate information from diverse sources.

General competences:

- GC4 Understand and recognize the social and psychological aspects relevant to the treatment of patients.
- GC14 Know about the general processes of the disease, among which are infection, inflammation, alterations of the immune system, degeneration, neoplasia, metabolic alterations, and genetic disorders.
- GC25 Know and apply the basic treatment of the most common oral and dental diseases in patients of all ages. Therapeutic procedures must be based on the concept of minimally invasive dentistry and in a comprehensive and integrated approach to the dental treatment.
- GC26 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 Raise and propose preventive measures appropriate to each clinical situation.
- GC30 Recognize the role of the dentist in the actions of prevention and protection against oral diseases, as well as in the maintenance and promotion of health, both individually and at the community level.

Specific competencies:

- SC9. Know the clinical and laboratory diagnostic procedures and tests, know their reliability and diagnostic validity, and be competent in the interpretation of their results.
- SC10. Recognise oral normality and pathology, as well as the evaluation of semiological data.
- SC11. Identify the main reason for appointment and the history of the current disease. Perform a general medical record of the patient and a medical file that accurately reflects the patient's records.
- SC12. Know the behavioural and communication sciences that facilitate the dental practice.
- SC13. Handle, discriminate and select appropriate materials and instruments in Dentistry.
- SC14. Know dental biomaterials: their handling, properties, indications, allergies, biocompatibility, toxicity, waste disposal and environmental impact.
- SC16. Conocer y usar del equipamiento e instrumentación básicos para la práctica odontológica.
- SC31. Know the pharmacological bases of the different anaesthetic techniques, both local and general, as well as the role of sedation and general anaesthesia in the management of the dental patient.
- SC39. Identify patients requiring special care, recognising their characteristics and peculiarities.

Learning outcomes:

- RA1: Performs a clinical history that allows the identification of systemic problems (cardiovascular, haemorrhagic, allergic, etc.) that may modify the dental treatment and may endanger the patient's life.
- RA2: Gain knowledge and experience in all clinical screening methods.
- RA3: Lists the stages of the surgical procedure and the factors that condition it.
- RA4: Recognizes clinically and radiographically the different oral pathologies in relation to surgery. Recognizes the consequences of errors in taking x-rays and correcting them.
- RA5: Practice basic incisions and sutures correctly on animal models.
- RA6: Reasons for the choice of different diagnostic and surgical techniques
- RA7: Practices exodontia of different degrees of complexity and apicoectomies in inorganic models
- RA8: Reasons for the choice of different surgical treatment plans in patients with different underlying pathologies at the level of the contents treated in class,

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

Competencies	Learning outcomes
CB2, CB3, CB5, CT1, CT3, CT7, CT8, CG4, CG14, CG26, CG27, CG30, CE9, CE10, CE11, CE12, CE39	RA1
CB2, CB3, CT1, CT7, CT8, CG14, CE9, CE10, CE11	RA2
CB2, CB3, CB5, CT1, CT3, CG14, CG25, CG26, CE13, CE14, CE16, CE31	RA3
CB2, CB3, CB5, CT1, CT3, CT8, CG4, CG14, CG25, CG26, CE9, CE16	RA4
CB2, CT1, CG25, CG26, CE13, CE14, CE16, CE31	RA5
CB2, CB3, CB5, CT1, CT3, CT7, CT8, CG4, CG14, CG25, CG26, CG27, CE9, CE10, CE11, CE12, CE31, CE39	RA6

CB2, CT1, CT3, CG14, CG25, CG26, CE13, CE14, CE16, CE31	RA7
CB2, CB3, CB5, CT1, CT7, CT8, CG4, CG14, CG25, CG26, CG27, CE9, CE10, CE11, CE13, CE14, CE16, CE31, CE39	RA8

4. CONTENT

The subject is organized into five thematic learning units, which in turn are divided into different themes (depending on the units):

Thematic Unit 1: Exploration and Diagnosis.

Thematic Unit 2: Anaesthesia.

Thematic Unit 3: Exodontia

Thematic Unit 4: Surgical Act

Thematic Unit 5: Dental Retentions

Thematic Unit 1: Exploration and Diagnosis

- Presentation

- Topic 1

1.1 Radiological exploration: History and importance of dento-buco-facial techniques.

1.1.1. Issuing focus

1.1.2 Object focus distance

1.1.3 Plate object distance

1.1.4 Plate beam angle

1.1.5 Parallelism object plate

1.2 Radiographic anatomy:

1.2.1. Anatomical images.

1.2.2. Interpretation.

1.3. Intra-abuccal radiographic techniques.

1.4. Extrabuccal radiographic techniques:

1.4.1. Panoramic radiography.

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

Thematic Unit 2: Anaesthesia

-Topic 2

2.1. Instrumental.

2.2. Techniques of local anaesthesia in Odontology.

2.3. Anatomical remembrance of the innervation of the upper jaw.

2.4. Local anaesthetic techniques in the upper jaw.

-Topic 3

3.1. Anatomical remembrance of mandibular innervation.

3.2. Mandibular local anaesthetic techniques.

3.3. Accidents and complications of local anaesthesia.

-Topic 4

4.1. Pharmacological recall of local anaesthetics.

4.2 Vasoconstrictor and other additives.

4.3. Indications.

Thematic Unit 3: Exodontia

-Topic 5

5.1. Tooth extraction. Concept. Indications and contraindications.

5.2. Anatomy applied to exodontia.

5.3. Exodontic instruments:

5.3.1. Description of the material.

5.3.2. Characteristics of forceps and elevators: Upper jaw.

5.3.3. Characteristics of forceps and elevators: Lower jaw.

-Topic 6

6.1. Exodontic techniques for permanent and temporary teeth.

6.2. Handling the opposite hand in each situation.

-Topic 7

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

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

Thematic Unit 4: Surgical Act

-Topic 8

8.1. The Surgical Act.

8.2. Equipment, instruments and materials in Oral Surgery.

8.3. Sterilization and maintenance of sterile instruments.

Phases of the surgical procedure:

8.4.1. Pre-operative.

8.4.2. Perioperative: behaviour in the operating room.

8.4.3. Postoperative: care of the operated patient.

8.5. Incisions and flaps.

8.6. Sutures. Materials and techniques.

8.7. Scarring process.

-Topic 9

9.1. Surgical or complicated exodontia: Ostectomy, Odontosection.

9.2. Extraction of roots.

-Topic 10

10.1. Oral surgery in special patients.

10.2. Complications in Oral Surgery:

10.2.1. Local Complications. Prevention and treatment.

10.2.2. General Complications. Prevention and treatment.

Thematic Unit 5: Dental Retentions

-Topic 11

11.1. Tooth retention: Concept, epidemiology and factors influencing tooth retention.

11.2 Pathology of the third molar. Concept:

11.2.1. Anatomico-embryological considerations.

11.2.2. Clinical phenomenology.

11.3. Pathology of the lower third molar:

11.3.1. Diagnosis.

11.3.2. Therapeutic approach.

11.3.3. Surgical technique.

11.3.4. Complications.

11.4. Pathology of the upper third molar:

11.4.1. Diagnosis.

11.4.2. Therapeutic approach.

11.4.3. Surgical technique.

11.4.4. Complications.

- Topic 12

12.1. Canines included:

12.1.1. Etiopathogenesis.

12.1.2. Clinic.

12.1.3. Diagnosis.

12.1.4. Therapeutic possibilities and complications.

12.2. Other teeth included:

12.2.1. Diagnosis.

12.2.2. Treatment.

12.2.3. Orthodontic surgical treatment.

5. TEACHING-LEARNING METHODOLOGIES

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

- Master class.
- Case method.
- Cooperative learning.
- Problem-based learning.
- Project-based learning.

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 Class	28 h
Laboratory Practices	30 h
Tutorials	10h
Self-study and self-employment	60 h
Knowledge and Skills Tests	10 h
Portfolio Configuration	10 h
Asyncon Virtual Master Class	2h
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
Test of theoretical knowledge	45%
Theoretical Continued Evaluation (Theoretical Activities and Seminar)	10 %
Test of practical knowledge (Rubrica evaluation practices)	35%
Portfolio	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

7.1.1. Theory

In order to pass the subject in ordinary convocation it will be necessary to have passed, with a score greater than or equal to 5 (out of 10), both the theoretical knowledge tests and the practical knowledge tests, independently. The arithmetic mean will not be made if both parts are not approved.

- Mandatory requirements:
 - The final theory exam will be taken by a multiple-choice test at the end of the semester and may include questions aimed at the visual identification of images.
 - This exam will consist of 50 multiple choice questions (4 answers with only one correct answer). Successful answers will add 1 point, bad answers will deduct 0.33 points and blank answers will score 0.
 - It is obligatory to answer 80% of the exam questions in order to pass the subject.
 - The final exam date will be scheduled from the beginning of the course.
 - Theoretical activities are not recoverable, since they do not prevent the continuous evaluation of the theoretical part carried out by the student and only suppose additional scores to the final grade of the subject.

7.1.2. Practices

The evaluation of the practices will be carried out periodically after each thematic block by means of rubrics.

In order to pass the section of the practices of the subject, it is necessary to obtain a 5 (out of 10)

- Mandatory requirements:
 - Attendance at internships is compulsory and those students who accumulate 3 or more FAULTS (even if justified) will lose the score of their Continuing Practical Assessment

- Failure to carry out the rubrics assessing practices for non-attendance (even if justified) will result in the practice not being scored and will have to be recovered in the final placement examination.
- If, in the answers to the Practice section, the teacher considers that there is a serious error of concept and/or the minimum basic knowledge required, that part of the section will be suspended.
- The overall score of practices must be higher than 5 (approved).
- If the student does not pass the practices, he will not be able to pass the course. If the Theory is suspended and not the Practices, or vice versa, only the approved part will be kept until the extraordinary convocation in July, and only the suspended part should be examined. The note will not be saved from one course to another.

7.2. Second exam period

In order to pass the subject in ordinary convocation it will be necessary to have passed, with a score greater than or equal to 5 (out of 10), both the theoretical knowledge tests and the practical knowledge tests, independently. The arithmetic mean will not be made if both parts are not approved.

8. REGULATIONS FOR THE ASSESSMENT OF ACCREDITED UNDERGRADUATE DEGREES AT UNIVERSIDAD EUROPEA DE MADRID

Article 1 - 4. Continuous assessment

Students taking campus-based studies are required to demonstrate that they have attended at least 50% of their classes. Such attendance forms an essential part of the assessment process and is necessary to give the student the right to receive guidance, assistance and academic supervision from the professor. For such purposes, students must use the technological system put in place by the University to accredit their daily attendance at each of their classes. This system shall furthermore ensure that objective information is gathered regarding the active role of the student in the classroom. The failure to use the methods proposed by the University to demonstrate 50% attendance will give the professor the right to grade the course as a fail under the ordinary exam period. The foregoing does not affect other requirements of higher attendance percentages that each school may establish in their teaching guides or internal regulations.

Therefore, it is the authority of the professor that students who have not fulfilled the 50% of attendance in the ordinary call must pass all the evaluation tests in the extraordinary call, for which they must obtain a grade greater than or equal to 5.0 out of 10.0 in all of them (Faculty Board 11-07-23).

Article 6 - 12. Final grades

Any student that uses or benefits from unlawful means during an evaluation test or that unduly attributes the author of the academic work required for the assessment will be graded as a "fail" (0) and may similarly be the object of a sanction, subject to the opening of disciplinary proceedings. In the case

of the Final Graduation Project, the plagiarism or the lack of originality of the project, will automatically be graded as a “fail” (0) in the corresponding course in both ordinary and extraordinary periods. Likewise, the student will lose their status as a student during six months according with the General Standards for Graduation Projects and Master’s Thesis in its Article 5.

9. SCHEDULE

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

Assessable activities	Deadline
Test of theoretical knowledge	January 2024
PRACTICAL ACTIVITIES EVALUATION	<ul style="list-style-type: none"> . Rubric 1: Clinical H. and XR: 26/9/24 y 27/9/24 - Rubric 2: Anesthesia: 17-18/10/24 - Rubric 3: Exodontia: 31/10/24 y 8-11-24 - Rubirc 4: Surgical Act: 14-11-24 22/11/24 - Rubric 5: Reteined teeth: 12-20/12/24
Continuous Evaluation of Theoretical Activities	<ul style="list-style-type: none"> . Theoretical Activities 1 y 2 and 3: 29 october 2024 . Theoretical Activities 4 y 5: 17 december 2024

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.

10. BIBLIOGRAPHY

The main reference work for this subject is:

- **DONADO RODRÍGUEZ, M.**, (2005) Oral Surgery. Pathology and Technique. Ed. Masson. 3rd Edition, Madrid.

The recommended Bibliography is:

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- W. SPATEHOLZ, Atlas of Human Anatomy. Barcelona Ed. Labor.
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- J. ALFREDO MACHIN, Immediate post-extraction implants. Ed. Machin-Cavalle. 2002
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- M. DONATE, Implantology Anatomy. Barcelona Editorial Ars Medica. 2003. ISBN: 84-9751-016-X

Recommended reference books in English:

- CRISPIAN SCULLY, (2013) Oral and Maxillofacial Medicine. Churchill Livingstone, Elsevier.

- JOSEPH REGEZI, SCIUBBA AND JORDAN (2012) Oral Pathology: Clinical and Pathologic Correlations. Elsevier.
- PETERSON'S. (2004) Principles of Oral And maxillofacial Surgery. Bc Decker Inc, Hamilton. London
- DAVID WRAY (2003) Textbook of General and Oral Surgery. Churchill&Livingston, Elsevier
- JAMES R HUPP (2014) Contemporary Oral and maxillofacial Surgery. 6th edition. Elsevier
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- M. DONATION, Exploration and Techniques in Oral Surgery, Madrid, Complutense University, 1983.

Scientific journals in Spanish:

- *Journal of the Illustrious General Council of Colleges of Dentists and Stomatologists (RCOE)* http://scielo.isciii.es/scielo.php?pid=1138-123Xscript=sci_serial

- *Advances in Odontostomatology.* www.ediciones-avances.com

- *Archives of Odontostomatology*

- *Annals of Odontostomatology*
- *European Journal of Stomatology*
- *Oral Medicine* <http://www.uv.es/medicina-oral/>
- *Quintessence International*. Spanish edition.
- *International Journal of Stomatological Prosthesis*. Spanish edition.

Scientific journals in English:

- *International Journal of Oral and Maxillofacial implants*.
<http://www.quintpub.com/journals/omi/gp.htm>
- *Journal of Oral and Maxillofacial Surgery*. http://www.joms.org*
- *Clinical Oral Implant Research*.
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- *Journal of Periodontology* <http://www.perio.org>
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11. DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.

12. 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.