

## 1. BASIC INFORMATION

<b>Course</b>	Dental therapy III / Module 4
<b>Degree program</b>	Dentistry degree
<b>School</b>	Faculty of Health and Biomedical Sciences
<b>Year</b>	Fourth
<b>ECTS</b>	4 ECTS/48h
<b>Credit type</b>	Mandatory
<b>Language(s)</b>	Spanish/English
<b>Delivery mode</b>	presence
<b>Semester</b>	First semester
<b>Academic year</b>	2024/2025
<b>Coordinating professor</b>	M <sup>a</sup> Carmen Benito Vicente

## 2. PRESENTATION

Dental therapy III is a semester subject that allows the student to diagnose, plan and treat from an esthetic point of view, patients of all ages and conditions with the corresponding sequential and integrated restorative procedures.

## 3. COMPETENCIES AND LEARNING OUTCOMES

### Core competencies:

- CB3: That students 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.
- CB4: That the students can transmit information, ideas, problems and solutions to a specialized and non-specialized public.
- 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, the strategies, the tools and the moments that they consider

most effective to learn and independently implement what they have learned. The autonomous student, in short, selects the best strategies to achieve their learning objectives.

- CT4: Capacity for analysis and synthesis: Analysis is the method of reasoning that allows the decomposition of complex situations in their constituent parts; also evaluate other alternatives and perspectives to find optimal solutions. The synthesis seeks to reduce complexity in order to understand it better and / or solve problems.
- CT5: Ability to apply knowledge to practice: Ability to use the knowledge acquired in the academic field in situations as similar as possible to the reality of the profession for which they are being trained, for example, by relating theoretical foundations with their application to real problems of everyday life, address problems and situations close to professional activity or solve real issues and / or problems.
- 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 the commitment with certain social values.
- CT8: Information management: Ability to search, select, analyze and integrate information from various sources.

#### **Specific competencies:**

- CE9. 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. Recognize normality and oral pathology, as well as the evaluation of semiological data.
- SC13. Handle, discriminate and select the appropriate materials and instruments in dentistry.
- CE14. Know dental biomaterials: their handling, properties, indications, allergies, bio-compatibility, toxicity, waste disposal and environmental impact.
- CE18. Provide a global approach to oral care and apply the principles of health promotion and prevention of oral diseases.
- CE19. Educate and motivate patients on prevention of oral diseases, control pathogenic oral habits, instruct them on proper oral hygiene, on dietary and nutritional measures and, in short, on all methods of oral health maintenance.
- CE38. Determine and identify the esthetic requirements of the patient and the possibilities of satisfying their concerns.

#### **Learning outcomes:**

- LO1: Diagnose, plan and perform, in general, a restorative, sequential and integrated treatment of limited complexity in patients of all ages and conditions.
- LO2. Specifically, the dentist must be competent in the establishment of a diagnosis, a prognosis and the development of adequate therapeutic planning, and in particular that ones related to the orofacial pain, temporo-mandibular disorders, bruxism and other parafunctional habits, dental and periapical pathology and bucco-dental trauma.

- LO3: Perform basic treatments of the oral and dental pathology in patients of all ages based on the concept of minimal invasion and in a global and integrated approach to the oral-dental treatment.
- LO5: Identify the main reason for consultation and the history of the current disease. Make a general clinical history of the patient and a clinical record that faithfully reflects the patient's records.
- LO6: Perform diagnostic cast models, mounting them and take inter-occlusal registers. To determine and identify the patient's aesthetic requirements and the possibilities of satisfying their concerns. To identify a patient that requires any special care, recognizing their characteristics and peculiarities. To assess motor and sensorial function of the mouth, jaws and adjacent tissues.
- LO9. Treat dento-alveolar trauma in permanent dentition.
- LO10: Evaluate and treat the patient with caries or other non-carious dental pathology and be able to use all materials aimed at restoring the shape, function and aesthetics of the tooth in patients of all ages.
- LO11. Design, prepare the teeth, prescribe, take registers, perform clinical tests and place and use indirect restorations: inlays, onlays, overlays, veneers, crowns, to treat operatively any destructive process and any traumatic dento-alveolar lesion.
- LO12. Perform endodontic treatments and use the procedures required to preserve the pulp vitality. Perform conventional aesthetic procedures from a multidisciplinary point of view.
- LO13 Perform non-surgical treatment of temporo-mandibular disorders and oro-facial pain.

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

Competencies	Learning outcomes
CB3,CT1,CT7,CT4,CG3,CG17,CG21,CG25,CG30CE9,CE10	RA1
CB5,CT7,CT71,CT5,CG3,CG14,CG21,CG25,CE18,CE19 CB3,CG21,CG25CE9,CE19 RA9	RA2
CT1,CT7,CG17,CG25,CE14,CE38	RA3
CB3,CT4,CT5,CG3,CG17,CE18,CE19	RA5
CB3,CT1,CT5,CT7,CT8, CG3,CG21,CG26,CE14	RA6
CB3,CG21,CG25CE9,CE19	RA9

CB4,CT1,CT8,CG25,CE18,CE14,CE13	RA10
CB3,CB4,CB5,CT1,CT5,CT7,CT8,CG21,CG26CE38	RA11
CB5,CB5,CT1,CT8,CE3,CG21,CG26CE9,CE13	RA12
CB3,CB5,CT5,CGE14,CG21,CE9,CE18	RA13

## 4. CONTENT

The subject has 13 learning units:

LU1.Introduction to Dental therapy III. Group work: a review of the literature. Literature research. Normative. Operative dentistry I and II reminder. Procedures and clinical systematic for the clinical practice.

LU2.New trends in caries diagnosis and treatments.

LU3.Adhesion.

LU4. Dental materials in Operative Dentistry. New composite resins. Cements.

LU5. Aesthetic in Operative Dentistry

LU6.Cosmetic dental treatments: minimal invasive procedures for the anterior teeth. Bleaching, contouring, microabrasion

LU7.Cosmetic dental treatments for the anterior teeth: direct techniques. Adhesion of dental fragments

LU8. Dental use of the glass fiber.

LU9.Cosmetic dental treatments for the anterior teeth: indirect techniques.

LU10.Cosmetic dental treatments for the posterior teeth: direct techniques. Dental occlusion in operative dentistry.

LU11. Cosmetic dental treatments for the posterior teeth: indirect techniques.

LU12.Endodontically treated teeth.

LU13. Bruxism. Current concepts. Oral manifestations

## 5. TEACHING-LEARNING METHODOLOGIES

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

- Master Classes
- Case analysis
- Practices
- Problem solving
- Discussions
- Rol playing
- 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 Classes	20,5
Virtual classes	5
Practices	3
Case analysis	10
Tutorials	2
Rol playing	3,5
Problem solving	7
Debate	3,5
Knowledge Tests	2
Study time and autonomous work	43,5
<b>TOTAL</b>	<b>100</b>

## 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
Knowledge test	30%
Portfolio	10%
Case/problem	10%

Debate	20%
Preclinical practices	30%

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

It will be followed as a system of assessment of the knowledge of the students, a continuous evaluation according to the general regulation and evaluation of the European University of Madrid.

To pass the subject in the ordinary call, the student must approve the different parts of the subject: Attendance, test of theoretical knowledge, test of clinical cases, group work, portfolios.

**Attendance.** - The assistance and active participation of the student to the theoretical classes, clinical sessions, seminars, as well as to other possible complementary activities, is essential for the correct learning of the theoretical content of the program, as well as for the development of the competences. - The evaluation in Grade is continuous. For this reason, attendance is essential. Absences above 50% will mean failing the subject in ordinary call.

**Test theoretical knowledge:** it will be made for those students who have no impediment, a knowledge test at the end of the semester, with multiple-choice questions and / or short open questions. This part will have a weight of 30% of the final theoretical grade. - The questionnaires and knowledge tests will be approved with a grade equal to or greater than 50%.

**Clinical case test:** A clinical case exam will be carried out, in which a real clinical case will be exposed and the student will have to solve it answering the different questions with a grade equal to or greater than 5. This part will be the 10 % of the final grade

**Portfolios:** The student must collect in a portfolio their homework or the classroom activities. Each practice will be delivered to the teacher on the marked day. At the end of the course the student will deliver with good presentation this collection of work, which we will call "portfolios", to his teacher on the indicated date. The portfolio will have a weight of 10% of the final grade.

The non-delivery of the portfolio will mean to fail the subject in the ordinary call and it will be approved in extraordinary call if it is delivered the day set on this extraordinary call.

- It will consist of 10 activities that will be carried out at the end of the theoretical part every day.
- It is essential to approve this portfolio to pass the subject
- Each student will print it and will bring it every day to the class. The assistance will be controlled. Only the activities signed by the teacher on the corresponding day of the activity will be taken into account.
- The portfolio will be delivered on December the 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> depending on the student's group.
- To obtain a grade of 5, at least 7 activities must have been completed, signed and passed.
- If a student fails the portfolio in the ordinary period, it will be retaken during the July follow-up period and it will be delivered on the second day of this follow up period. Only the failed or not presented activities.

**Group work:** A bibliographic review work will be carried out, regarding a topic assigned by the teacher. Homework will be distributed, a presentation will be made, and it will be presented to the class. It will have a weight of 20%

To pass the subject it is necessary to successfully overcome all the parts separately. A grade lower than 5 in any of the different parts of the subject will imply to fail it.

The work done by each team member, the presentation of the work, and the oral presentation will be taken into account.

The detection of lack of work of any member of the team may involve the expulsion of the student from the group, therefore he/she will have to perform it individually.

**Practices:**

The practices will consist of three activities, two preclinical simulated in the classroom (annex), consisting of the realization of a clinical case, and one in the laboratory.

The student must attend the practical workshop with the recommended material and perform the chosen practice.

The assistance, the material and the realization of the practice will be evaluated.

To pass the subject it is necessary to successfully pass all the parts separately. To pass the course in the first exam period, you must obtain a final course grade of at least 5 out of 10 (weighted average).

In accordance with article 6, point 12 of the UNIVERSIDAD EUROPEA DE MADRID'S REGULATIONS FOR THE EVALUATION OF OFFICIAL DEGREE DEGREES:

Any student who has or uses illicit means in the celebration of an evaluation test, or who improperly attributes the authorship of academic work required for the evaluation, will have the grade of "failed" (0) in all evaluation tests of the call in which the fact has occurred and may also be subject to sanction, after the opening of disciplinary proceedings

## 7.2. Second exam period

To pass the course in the second exam period, you must obtain a final grade of at least 5 out of 10 (weighted average).

The student must deliver the activities not successfully completed in the first exam period after having received the corresponding corrections from the professor, or those that were not delivered in the first place.

## 8. SCHEDULE

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

Assessable activities	Deadline
Activity 1: • Case 1 and Case 2 • Protocol to restore with composite resin in the posterior sector	Week 2
Activity 2: Cases 1-5	Week 3
Activity 3: Adhesion protocol. Adhesion concepts	Week 4
Activity 4: materials	Week 5
Activity 5: facial analysis	Week 6

Activity 6: Aesthetic protocols in anterior teeth I	Week 7
Activity 7: Aesthetic protocols in anterior teeth II.	Week 8
Anterior clinical case	Week 9
Activity 8: Indirect technique protocol	Week 10
Activity 9: Indirect restorations protocol. Preparation/cementation	Week 11
Activity 10: root canal treated teeth cases 1 and 2. Cementation of a fiber post protocol	Week 12
Posterior clinical case	Week 13
Group work exposition. Discussion. Portfolio delivery	Week 14
Group work exposition. Discussion	Week 15
Tutorial/incrustations workshop	Week 16
Final knowledge test	Week 17

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. BIBLIOGRAPHY

The main reference work for this subject is:

- Title: Patología y Terapéutica dental 2 edición  
Autor: Javier García Barbero  
Editorial: Elsevier 2015
- SOLUTIONS. ADHESIVE RESTORATION TECHNIQUES RESTORATIVE AND INTEGRATED SURGICAL PROCEDURES. ANTERIOR AND POSTERIOR. Marco Veneziani. Editorial Edra

The recommended Bibliography is:

- Title: Odontología Restauradora. Salud y Estética. 2ª Edición
  - Autor: Nocchi Conceição
  - Editorial panamericana 2008
- Title: Operatoria dental.
  - Autor: Barrancos Mooney.
  - Panamericana. 1.999.
- Title: Odontología restauradora, fundamentos y técnicas, tomo I-II
  - Autor. Luis Narciso Baratieri
  - Editorial Santos 2009



- Title: Adhesión dental: Pautas de actuación clínica.
  - Autor: José Luis Padrós Serrat
  - Ediciones especializadas europeas. Octubre 2009
  
- Title: Reconstrucción de dientes endodonciados: una pauta de actuación clínica.
  - Autor: Ernest Mallat Callis
  - Ediciones especializadas europeas
  
- Title: Odontología estética y restauraciones cerámicas.
  - Autor: Touati.
  - Masson. 2.000.
  
- Title: Bases prácticas de odontología estética.
  - Autor: Crispin.
  - Masson. 1.998.
  
- Title: Odontología estética.
  - Autor: Goldstein.
  - Ars médica. 2.002.

## 10. EDUCATIONAL GUIDANCE AND DIVERSITY UNIT

From the Educational Guidance and Diversity 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@universidadeuropea.es](mailto:orientacioneducativa@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.

## **REGULATIONS FOR THE ASSESSMENT OF ACCREDITED UNDERGRADUATE DEGREES AT UNIVERSIDAD EUROPEA DE MADRID**

### **CHAPTER I. COURSE ASSESSMENT SYSTEM FOR ACCREDITED UNDERGRADUATE DEGREES**

#### **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.