

1. CORE OVERVIEW

Course Subject	Pediatric Dentistry IV
Graduate Degree	Bachelor's Degree in Dentistry
School/Faculty	Faculty of Biomedical and Health Sciences
Year	Fourth
ECTS	3 ECTS
Type	Compulsory
Language/s	Spanish/ English
Modality	On-campus Attendance
Semester	Second
Academic year	2025-2026
Coordinating teacher	Begoña Bartolomé Villar

2. INTRODUCTION

Pediatric Dentistry IV is a course of the fourth year of the Bachelor's Degree in Dentistry that takes place in the second Term, with a value of 3 ECTS.

This subject, Compulsory within the Qualification, provides basic and specific training on the child patient in the field of Dentistry, providing a global idea of the child and also deepening specific knowledge related to the subject, essential for the Training of the dentist and his future professional activity.

The future dentist should have sufficient knowledge of dental alterations during development, learning to differentiate the different anomalies of shape, size, number, structure and color. In addition, they will know the most relevant oral pathologies and those of systemic origin associated with child patients, as well as the therapeutic guidelines for medically compromised patients, and should be competent to apply this information to clinical situations.

In the planning of the subject it will be essential to respect a logical order in the student's learning. In the planning of the Syllabus of Pediatric Dentistry, the general and specific Competencies are clearly defined in order to develop the different levels of learning in the subject.

The Subject is taught in Spanish and English given the marked international character of the European University of Madrid, this provides students with sufficient tools to achieve a level of knowledge that will allow them to develop their professional work internationally.

Within the ECTS of this course are included hours of work with the professor (masterclasses, seminars, directed studies, case studies, problem-based learning, presentation of assignments, tutorials, simulation of clinical situations...) as well as hours of personal work dedicated to study.

All this will allow the future Alumni to acquire all the necessary knowledge regarding preventive treatment, diagnosis and therapy of child patients.

3. LEARNING OUTCOMES

Knowledge

CON03 Understand and recognised the social and psychological aspects relevant to the treatment of patients.

CON09 Understand and recognised the structure and normal function of the stomatognathic apparatus, at molecular, cellular, tissue and organic level, in the different stages of life.

CON11 Know about general disease processes and their treatment, including infection, inflammation, immune system alterations, degeneration, neoplasia, metabolic alterations and genetic disorders.

CON25 Know clinical and laboratory diagnostic procedures and tests, know their reliability and diagnostic validity, and be competent in interpreting their results.

CON26 Know the behavioral and communication sciences that facilitate dental practice. CON35 Know the oral manifestations of systemic diseases.

Specific knowledge of the subject:

- Know the different alterations of dental development.
- Recognizing the different oral lesions that affect the child patient and their treatment.
- To identify the pathology that requires surgical treatment, as well as the emergencies that may occur in the pediatric dental clinic.
- Acquire knowledge about oral conditions of patients with special needs and considerations for dental treatment.

Skills

HAB07 Know how to perform a complete oral examination, including appropriate radiographic and Complementary examination tests, as well as obtaining appropriate clinical references.

HAB12 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.

HAB13 Propose and propose preventive measures appropriate to each clinical situation. HAB16 Acquire preclinical experience under appropriate supervision in simulated environments.

HAB17 Solve clinical cases in a simulated environment.

Skills specific to the subject:

- Appropriately manage dental and/or medical emergencies of the pediatric patient in simulated settings.
- Recognize and identify the specific characteristics of dental developmental disorders and pediatric oral lesions in simulated environments.

Competencies

CP02 Recognize normality and oral pathology, as well as the assessment of semiological data.

CP03 Identify the main reason for consultation and history of current disease. Take a general clinical history of the patient and a clinical record that accurately reflects the patient's records.

CP06 Provide a comprehensive approach to oral care and apply the principles of health promotion and prevention of oral diseases.

CP09 Recognize that the patient is the focus of care and that all interactions, including prevention, diagnosis, treatment planning and implementation, and maintenance, should be in the patient's best interest, avoiding discrimination of any kind and respecting confidentiality.

CP10 Identify signs and attitudes suggestive of possible maltreatment.

CP11 Know and manage the most frequent emergencies and medical emergencies in dental practice and basic cardiorespiratory resuscitation techniques.

CP44 Integrate analysis with critical thinking in a process of Assessment of different ideas or professional possibilities and their potential for error, based on evidence and objective data that lead to effective and valid decision making.

4. CONTENTS

- Anomalies of the developing dentition.
- Surgical treatments and pediatric dentistry emergencies.
- Comprehensive diagnosis and treatment plan of oral pathology in the pediatric patient and in the patient with special needs.

The subject is organized in four learning units, which, in turn, are divided into 11 topics:

UNIT 1: DENTAL DEVELOPMENT ALTERATIONS.

TOPIC 1.- ALTERATIONS OF THE DENTITION IN DEVELOPMENT I

- Concepts and classification
- Abnormalities of number
- Size and shape anomalies

TOPIC 2.- ALTERATIONS OF THE DEVELOPING DENTITION II

- Abnormalities of enamel and dentin structure
- Abnormalities of cementum
- Color anomalies

UNIT 2: BEHAVIORAL MANAGEMENT OF THE CHILD PATIENT. SPECIAL SITUATIONS

TOPIC 3.- PATIENT WITH SPECIAL NEEDS (PSYCHIC AND SENSORIAL ALTERATIONS)

- Characteristics of the patient with special needs
- Patient with cerebral palsy
- Autism
- Epilepsy
- Deafness. Blindness

SUBJECT 4.- CHILD ABUSE

- Identification of the maltreated child
- Causes of child abuse
- Characteristic injuries of the maltreatment
- Legal Affairs. Protocol.

UNIT 3: EMERGENCIES IN THE CHILD PATIENT

SUBJECT 5.- PEDIATRIC DENTISTRY EMERGENCIES

- Concept of urgency
- Most frequent dental emergencies in the dental office: prior to treatment, during treatment and after dental treatment.
- Medical emergencies in the dental office: management

TOPIC 6.- SURGICAL TREATMENTS IN CHILDHOOD I

- Retained teeth
- Alveolar ridge lesions.

TOPIC 7.- SURGICAL TREATMENTS IN CHILDHOOD II

- Alterations of oral soft tissues.
- Pathology of the salivary glands.

UNIT 4: ORAL PATHOLOGY IN PEDIATRIC DENTISTRY. MEDICALLY COMPROMISED PATIENT

TOPIC 8.- ORAL PATHOLOGY IN PEDIATRIC DENTISTRY PATIENTS

- Oral infectious diseases with local repercussion.
- Ulcerative and vesicular-blistering diseases.
- Vascular and erythematous lesions.
- Exophytic lesions and gingival hyperplasias.

SUBJECT 9.- SYSTEMIC DISEASES THAT OCCUR WITH ORAL PATHOLOGY

- Diseases with premature loss of deciduous teeth
- Oral pathology of the newborn

TOPIC 10.- MEDICALLY COMPROMISED PATIENT

- General characteristics of the medically compromised patient
- Prematurity. Alterations of the intubated patient
- Patient with cardiopathy and respiratory problems.
- Patient with endocrine and hematological alterations.
- Patient with feeding disorders
- Oncological and immunosuppressed patient.

INTEGRATION OF THE THEORETICAL KNOWLEDGE THROUGH THE DEVELOPMENT OF CASE STUDIES ANALYSIS

- Clinical cases on the pathologies developed in the course syllabus.

5. TEACHING-LEARNING METHODS

The following are the types of Teaching-Learning methods that will be applied:

- MD1 Masterclass
- MD2 Case study method
- MD3 Cooperative learning
- MD4 Problem-based learning.
- MD8 Simulation environments.

6. LEARNING ACTIVITIES

The following are the types of Learning activities that will be carried out and the student's dedication in hours to each one of them:

Learning activity	Number of hours
AF1 Masterclasses	24
AF3 Case studies Analysis	4
FY4 Problem-solving	5
AF5 Oral presentations of assignments	2
AF10 Self-study work	38
AF12 Face-to face assessment tests On-campus	2
TOTAL	75

7. ASSESSMENT

The following is a list of the Assessment systems, as well as their weight on the total grade of the course:

Assessment systems	Weight
SE1 On-campus On-campus Assessment tests	70%
SE4 Case/problem	20%
SE7 Systematic observation	10%

In the Virtual Campus, when you access the course, you will be able to consult in detail the Assessment activities to be carried out, as well as the due dates and assessment procedures for each one of them.

7.1. Ordinary Exam period

To pass the Subject in Ordinary 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. However, this grade will only be valid if the minimum requirements established for each of the evaluable blocks (practical exercises, case studies, Seminars/presentations, group participatory activities and objective theoretical test) have been met, as indicated in the learning guide. This means that, even if the weighted average is equal to or higher than 5.0, the course will not be passed if any of the parts has not reached the minimum grade required. The grade for each of the parts of the course is detailed below.

On-campus attendance will be required for both the theoretical classes and all the activities (practical exercises, case studies, etc.). The dates of all of them will be reflected in the corresponding Timeline of the course. It will be necessary to attend at least **70% of the theory classes and perform 70% of the practical exercises** and case studies in the classroom ON-CAMPUS in order to pass this part of the course.

Attendance to the activities in the **simulated Hospital is Compulsory**, being an indispensable requirement to pass the course. The theoretical content of the simulated hospital activity will be assessed in the theoretical objective test of the course.

Attendance to all group introductions made in the classroom is **Compulsory**. The grade obtained in the group methodology must be greater or equal to 5.00 out of 10.

The objective theoretical test may be a multiple-choice test, short questions or clinical case studies. **In any case, it will be necessary to obtain a grade higher or equal to 5.0 in the final test, so that it can be averaged with the rest of the Assessable activities that have been passed according to the criteria established in the learning guide.**

The theoretical test may consist of multiple-choice questions, short questions, clinical cases, open questions or a combination of them. If the multiple-choice mode is requested, 80% of the questions must be answered, so that if more than 20% of the questions are not answered, the test will be considered null and void and if the answers are not filled in the template, the correction will not be carried out. Failure to comply with these rules will mean that the student will pass to the Extraordinary exam period. If the test modality also includes short questions or a clinical case, both parts (test and short questions or clinical case) must be passed with at least a 5.0 in each of the modalities. In no case can one part of the course be compensated with the grades obtained in the other parts. **Only the written content that is answered within each question and that is in accordance with what is requested in the statement will be taken into account in order to be evaluated.**

If the student does not pass any of the parts of the theoretical test in the ORDINARY EXAM period and therefore does not pass the WHOLE of it, in no case will any of the parts passed be saved for the Extraordinary exam period, and the student will have to take the whole test (test, short questions, clinical case, etc.) in the EXTRAORDINARY EXAM period.

Likewise, in order to take the final exam, you must have attended at least 50% of the scheduled classes and activities, as established in the course guide. This requirement applies regardless of whether the absences are justified or not. If the percentage of absences exceeds this limit, they cannot be justified in any case and this will imply the impossibility of passing the course in that call for entries.

Objective test review protocol:

All examined students have the right to the exam review regardless of their grade. The final grades will be published on the Virtual Campus in the section intended for this purpose, stating the date and time for the review and will take place, whenever possible, between the 2nd and 5th working day after publication, as indicated in Article 7.10 of the Assessment Regulations of the Official Bachelor's Degrees. In order to guarantee the correct development of the review, students must previously notify the professors through the channel that the professor deems appropriate (mail, Canvas, etc.) of their desire to attend the review and those who have not been notified will not be able to do so. During the exam review, the student will be provided with his/her answer sheet, template and question booklet. He/she will not be able to open the computer, telephone and/or notes. Any doubt or disagreement with a specific question will be discussed with the professor, who will give an answer; if more time is required, the student may be asked to answer the question at another time. The maximum recommended time

for a student to review his/her exam will be 15-20 minutes. On-campus review will take place at the place indicated by the professor. The review date is official and, therefore, the professor is not obliged to change the date if the student is unable to attend.

According to the REGULATIONS OF ASSESSMENT OF THE OFFICIAL GRADUATE'S DEGREES OF THE UNIVERSIDAD EUROPEA DE MADRID DEGREE I.

Art. 1- 4 states the following:

For students taking On-campus Bachelor's Degree courses, it is compulsory to justify, at least, 50% attendance to classes, as a necessary part of the Assessment process and to comply with the student's right to receive counseling, assistance and academic monitoring by the professor. Failure to provide proof of at least 50% attendance by the means proposed by the university will entitle the professor to grade the course as a failure in the Ordinary Exam period, in accordance with the grade system established in these regulations. All this, without prejudice to other requirements or higher attendance percentages that each faculty may establish in the learning guides or in its internal regulations.

Therefore, it is the professor's faculty that students who have not complied with 50% attendance in Ordinary Exam period must pass in Extraordinary Exam period all the objective tests, for which they must obtain a grade higher or equal to 5.0 out of 10.0 in all of them (Faculty Board 11-07-23).

Art. 6 - 12 indicates the following:

Any student who has or makes use of illicit means in the celebration of an assessment test, or who unduly attributes the authorship of academic works required for the assessment, **will have the grade of "Fail" (0) in all the assessment tests of the call for entries in which the fact has occurred and may also be subject to sanction, after the opening of disciplinary proceedings.** In the case of the Bachelor's Degree Final Year Project, plagiarism or lack of originality will lead to a grade of "fail" (0) in Ordinary and Extraordinary exam entries, as well as the loss of student status for 6 months, in accordance with Article 5 of the General Regulations for Bachelor's Degree and Master's Degree Final Year Projects of the European University of Madrid.

7.2. Extraordinary exam period

In order to pass the course in the Extraordinary 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 higher or equal to 5.0 in the final test, so that it can be averaged with the rest of the Assessable activities.

Depending on the parts not passed in the Ordinary Exam period, you will have to recover those that have not reached the minimum grade required (grade equal or higher than 5):

- In case you have not passed the theoretical exam, you will have to repeat this test in the Extraordinary exam period with the totality of its integral parts.
- If you have not passed the practical part of the course (practical exam), it will be necessary to take it again, according to the indications of the teaching staff.

- If any of the continuous Assessment activities (theoretical or practical) has not been passed or was not submitted in the Ordinary Exam, you must complete it On-campus during the follow-up period, in the established schedules. These activities may coincide with the original ones or be substituted by others, according to the teacher's criteria. All the recovery activities will be carried out **On-campus** in the classroom on the days indicated by the University for the follow-up period. Under no circumstances can a part of the course be compensated with the grades obtained in the other parts.
- Assessment in the Extraordinary exam period will be carried out following the same criteria explained for the Ordinary Exam period.

8. TIMELINE

This section shows the Timeline with dates for the delivery of Assessable activities of the course:

Assessable activities	Date
Activity 1. Practical exercises on dental anomalies	Week 2
Activity 2. Clinical cases on dental anomalies II	Week 3
Activity 3. Practical exercises on dental anomalies III.	Week 4
Activity 4. Group exercises in class on dental anomalies.	Week 5
Activity 5. Cases on surgical pathology in the pediatric patient.	Week 6 Activity 6 and 7.
Activity 6 and 7. Cases on patients with systemic diseases and oral pathology.	Week 7 and 8
Activity 8. Exercises on medically compromised patients	Week 9 Activity 9, 10 and 11.
Activity 9, 10 and 11. Clinical cases on oral pathology in pediatric dentistry patients.	Week 10, 11 and 12
Activity 12. Pediatric dentistry emergencies in the simulated hospital.	Week 13
Activity 13 and 14: Group methodologies: Child abuse and patients with special needs.	Week 14 and 15
Activity 15. Comprehensive clinical cases.	Week 16
Activity 16. Final On-campus attendance test.	Week 17

This Timeline may be subject to modifications due to logistical reasons of the activities. Any modification will be notified to the student in due time and form.

9. BIBLIOGRAPHY

The reference work for the follow-up of the course is:

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10. EDUCATIONAL ORIENTATION, DIVERSITY AND INCLUSION UNIT.

From the Educational Guidance, Diversity and Inclusion Unit (ODI) we offer accompaniment to our students throughout their university life to help them achieve their academic achievements. Other pillars of our actions are the inclusion of students with specific educational support needs, universal accessibility in the different campuses of the university and equal opportunities.

This Unit offers students

1. Accompaniment and monitoring through counseling and personalized plans for students who need to improve their academic performance.
2. In the subject of attention to diversity, non-significant curricular adjustments are made, that is, at the level of Methodological and Assessment, in those students with specific educational support needs, thus pursuing equal opportunities for all students.
3. We offer students different extracurricular training resources to develop diverse Competencies that will enrich their personal and professional development.
4. Vocational guidance through the provision of tools and counseling to students with vocational doubts or who believe they have made a mistake in their choice of Degree.

Students who need educational support can write to us at:

orientacioneducativa@universidadeuropea.es

11. SATISFACTION SURVEYS

Your opinion matters!

Universidad Europea encourages you to participate in the Satisfaction Surveys to detect strengths and areas for improvement about the faculty, the Qualification and the teaching-learning process.

The surveys will be available in the survey area of your online campus or through your email.

Your feedback is necessary to improve the quality of the qualification.

Thank you very much for your participation.