

## 1. CORE DATA

<b>Course Subject</b>	Paediatric Dentistry I
<b>Qualification</b>	Bachelor's Degree in Dentistry
<b>School/Faculty</b>	Faculty of Biomedical and Health Sciences
<b>Graduate Year</b>	Third
<b>ECTS</b>	6
<b>Type</b>	Compulsory
<b>Language/</b>	Spanish / English
<b>s Modality</b>	On-campus attendance
<b>Semester</b>	First term
<b>Academic year</b>	2025-2026
<b>Coordinating teacher</b>	Montserrat Diéguez Pérez

## 2. INTRODUCTION

Paediatric Dentistry I is a course in which, taking into account the training profile that the student is expected to achieve, it provides basic and specific training on the health and oral pathology of paediatric patients. At the same time, it helps the student to acquire the theoretical knowledge and practical skills necessary to make a correct clinical diagnosis, favour oral prevention, draw up treatment plans and introduce them to the practice of pre-clinical therapeutics before starting to work with child patients. All this taking into account the degree of development and growth of the child.

The Subject respects a chronological order that allows the acquisition of increasingly complex knowledge in a progressive manner, in addition to the acquisition of manual dexterity that will be incorporated in traditional and advanced simulation. In the planning of the Syllabus of Paediatric Dentistry, the general and specific Competencies necessary to develop the different levels of learning in the subject are clearly defined. The Subject is taught in Spanish and English given the marked international character of the European University of Madrid, providing students with sufficient tools to achieve a level of knowledge that will allow them to develop their professional work internationally.

## 3. LEARNING OUTCOMES

### Knowledge

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

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

CON14 Understand and recognised the principles of ergonomics and occupational safety (including cross-infection control, radiation protection, occupational and biological diseases).

CON17 Recognise the anatomy, pathophysiology and oral pathology of a simulated patient in a pre-clinical setting in order to carry out rehabilitative or restorative diagnosis and treatment.

Specific knowledge of the subject:

- Know the anatomy of the primary dentition, its eruption process, occlusion and tooth replacement in the paediatric dentistry patient.
- Describe and understand the aetiology, diagnosis and treatment of carious pathology in paediatric patients.

### **Skills**

HAB13 Propose and propose preventive measures appropriate to each clinical situation.

HAB16 Acquire pre-clinical experience under appropriate supervision in simulated environments. HAB17 Solve clinical cases in a simulated environment.

HAB18 Know and use the Core equipment and instrumentation for dental practice. HAB22 Prepare and isolate the operative field.

Skills specific to the subject:

- Perform modelling and recognised the main anatomical characteristics of primary teeth.
- Apply the steps and perform the different techniques for absolute isolation in dental surgery.
- Perform cavity designs on typodonts in children.

### **Competencies**

CP02 Recognise normality and oral pathology, as well as the assessment of semiological data. CP04

Handle, discriminate and select the appropriate materials and instruments in dentistry.

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

dental diseases.

CP09 Recognising that the patient is the centre of attention and that all interactions, including prevention, diagnosis, treatment planning and execution, and maintenance, must be in the best interests of the patient, avoiding any kind of discrimination and respecting confidentiality.

CP43 Cooperate with others in the achievement of a shared academic or professional objective, participating in an active and empathetic manner and exercising active listening and respect for all members.

## **4. CONTENTS**

- Introduction to paediatric dentistry.
- Morphology of the primary dentition.
- Eruption, occlusion and articulation in the primary dentition.
- Physiology of tooth replacement.
- Pathology and therapy of dental caries in children.

## **5. TEACHING-LEARNING METHODS**

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

- MD1 Masterclass.

- MD2 Case study method.
- MD3 Cooperative 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 of them:

Learning activity	Number of hours
AF1 Masterclasses	23,5
AF3 Case studies analysis	8
AF4 Problem-solving	5
AF5 Oral presentations of assignments	1
AF8 Workshop activities and/or Laboratory activities	30
AF10 Self-study work	80,5
AF12 On-campus Face-to face assessment tests	2
<b>TOTAL</b>	<b>150</b>

## 7. ASSESSMENT

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

Assessment systems	Weight
SE1 On-campus Face-to face assessment tests	20-40%
SE6 Assessment of performance	40-60%
SE7 Systematic observation	10-30%

On 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 the 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 assessable blocks 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 have not reached the minimum grade required.

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.

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.

- Knowledge test: 30% of the final mark. The teacher has the right not to correct the test if the student does not indicate his/her full name, file number, the group to which he/she belongs and does not sign it, as this means that he/she does not accept the rules of the test. The mode of the test is free. If a multiple-choice mode is requested, the student must necessarily answer 80% of the questions asked, so that if more than 20% of the questions are not answered, the test will be considered void. Similarly, if you do not underline the unanswered answers in the template, they will not be corrected either. Failure to comply with these regulations will mean that the student will go on 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 5.0 in each modality. The answer sheet must be signed for subsequent correction and must include, as indicated above, the full name, file number and group to which it belongs. We insist on the need to read and understand the rules of the objective test, as well as to sign it, as failure to comply with these rules automatically invalidates the test. As this course is On-campus and Compulsory, in the knowledge test questions can be asked about the content of the course published on the online campus as well as the comments made in class.

- Lab practices and advanced simulation: This accounts for 50% of the final mark. Each of the activities carried out in the traditional simulation environment have the same evaluation weight, with the exception of the advanced simulation activity, in such a way that the final mark represents 90% of the computation of the evaluated pre-clinical practices, the theoretical tests prior to the block and the final practical exam if this is carried out, the remaining 10% corresponds to the mark obtained in advanced simulation. In order to pass the pre-clinical practicals all the assessments must be passed, including the pre-tests.

In each thematic block there will be a theoretical test at the beginning of the practical activity, and it is essential to pass the pre-test in order to be able to continue with the practical that day. If the student fails the pre-test, he/she must make up the practical activity at the end of the semester or, if necessary, during the follow-up period. There are minimum requirements for the assessment of each of the blocks and it can only be carried out if there has been no absence or serious fault during the development of the thematic block.

On the last day of the practicals, the student must hand in the provided typodont, unless they need to make up the traditional simulation practicals in the Extraordinary exam period or they are going to take the course of paediatric dentistry II, this is a necessary condition to obtain the final mark for this block, for which they will have to notify via e-mail the delivery of this and once it has been checked they will obtain the final mark for this practical assessment.

It is only possible to make up two traditional preclinical simulation practicals in Ordinary Exam period, either due to lack of attendance, failure to pass or serious misconduct. Regardless of the reason, only two modalities can be made up and if they are exceeded, the student will go directly to the Extraordinary Exam period. If the student's record shows more than two absences, regardless of the type of absence (lack of attendance, practice not passed or serious failure), the student will go directly to the Extraordinary exam period without having the option to make up for them in the Ordinary Exam period. However, the advanced simulation activities are not recoverable in any case due to a logistical problem. Assessment of each thematic block of the pre-clinical practicals implies having completed all the practicals that make up the block and not having any serious faults such as lateness or attending the practicals without the corresponding material. The student will not be allowed to leave their work station until the practical teacher checks the material to avoid exchanges between colleagues, if this occurs (absence) it will be considered a serious fault.

- Methodologies (cooperative learning, case-based learning, problem-based learning and portfolios). These account for 20% of the final mark. The activities corresponding to the Methodological section may be assessable as long as the student passes the collaborative work and also 70% of the rest of the On-campus activities. The Activity corresponding to the cooperative learning is equivalent to 50% of the final mark of the Methodological section and the student's attendance in the classroom is necessary, whether he/she presents or not, so non-attendance will mean its recovery in the Extraordinary exam period.

In accordance with Article 6, point 12 of the REGULATION OF ASSESSMENT OF THE OFFICIAL GRADUATE DEGREES OF THE UNIVERSIDAD EUROPEA DE MADRID:

Any student who uses illicit means in an assessment test, or who improperly claims authorship of academic work required for assessment, will be given a grade of "Fail" (0) in all the assessment tests of the call for entries in which the act occurred and may also be subject to sanction, after the opening of disciplinary proceedings.

On the basis of Article 1, point 4 of the REGULATIONS FOR THE ASSESSMENT OF THE OFFICIAL GRADUATE DEGREES OF THE UNIVERSIDAD EUROPEA DE MADRID:

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

Therefore, it is the faculty's faculty that students who have not complied with 50% attendance in the Ordinary Exam period must pass all the objective tests in the Extraordinary exam period, 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).

Objective test review protocol: All examined students have the right to review the exam regardless of their grade. The final grades will be published on the Virtual Campus in the section dedicated to this, stating the date and time for the review, which will take place, whenever possible, between the 2nd and 5th working day after publication, as indicated in article 7.10 of the Assessment Regulations for the Official Bachelor's Degrees. In order to guarantee the correct development of the review, students must previously notify the lecturers through the channel that the lecturer deems appropriate (mail, canvas, etc.) of their wish to attend the review, and those who have not notified the lecturer will not be able to do so. Notification shall take place at least 24 hours before the day assigned for the review. Otherwise you will not be eligible for the review. During the exam revision, 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 teacher, who will give an answer; if more time is required, the student may be asked to do so at another time. The maximum time for a student to revise his/her exam will be 15 minutes. On-campus revision will take place at the place indicated by the teacher. The revision date is official and, therefore, the teacher is not obliged to change the date if the student is unable to attend.

## **7.2. Extraordinary exam period**

In order to pass the Subject 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 make up those that have not reached the minimum grade required:

- If you have not passed the theory exam, you will have to repeat the whole exam (all the parts that make up the exam) in the Extraordinary exam period.
- If you have not passed the practical part of the course, you will have to take it again, according to the indications of the teaching staff.
- If any of the continuous Assessment activities (theoretical or practical) have not been passed or were not submitted in the Ordinary Exam period, you must complete them On-campus during the follow-up period, at the established times. These activities may coincide with the original ones or be replaced by others, according to the criteria of the teaching staff and the student's progress during the year.

To be able to recover the course in the Extraordinary exam period, it is essential to attend all the activities of the follow-up period. If the student does not attend any of the days stipulated for this, he/she will not be able to pass the course in this period under any circumstances. Therefore, the student must attend On-campus the two weeks assigned to this period for the assessment to be carried out.

The rules for the preparation, correction and revision of the objective test are the same as those applied in the Ordinary Exam period. Regarding the preclinical practicals, the work carried out on the typodont without the presence of the teacher and/or outside the phantom involves a serious fault and the student will not pass these.

and the student will not pass the practicals. Activities and group work not passed in the Ordinary Exam period must be handed in after having received the corresponding corrections from the teacher, or in those cases in which they were not handed in. On-campus attendance in the classroom on the days assigned by the teacher is Compulsory. Plagiarism will result in disciplinary proceedings.

## 8. TIMELINE

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

Assessable activities	Date
Lab practices	Weeks 2-17
Practical exercises	Weeks 3, 4, 17
Collaborative work	Weeks 5-11
Seminars	Week 5, 13, 14
Case analysis	Week 6-11, 15, 16
Knowledge tests	Week 19

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

## 9. BIBLIOGRAPHY

The reference work to follow the course is:

- Boj JR, Catalá M, García C, Mendoza A, Planells P. Odontopediatría: Bebés, niños y adolescentes. Mexico: Odontología Books; 2019.

Recommended Bibliography is listed below:

- Barbería E, Boj JR, Catalá M, García C, Mendoza A. Odontopediatrics. 2nd ed. Barcelona: Masson; 2001.
- Bordoni N, Escobar A, Castillo Mercado R. Paediatric dentistry. Oral health of children and adolescents in today's world. Madrid: Médica Panamericana; 2010.
- Cameron AC, Widmer RP. Manual of paediatric dentistry. Barcelona: Elsevier; 2010.
- Casamassino P, Fields H, McTigue D, Nowak A. Pediatric Dentistry. Infancy through adolescence. St. Louis: Elsevier; 2012.
- Cuenca E, Baca P. Preventive and Community Dentistry. Principles, methods and applications. Madrid: Elsevier Masson; 2013.
- Coelho S, Mitsue E. Pediatric Restorative Dentistry. Switzerland: Springer; 2019.

- Dugal M, Cameron A, Toumba J. Paediatric Dentistry. Ed Wiley-Blackwell; 2013.
- Escobar F. Paediatric Dentistry. Madrid: Ripano; 2011.
- Figueiredo LR, Ferelle A, Issao M. Dentistry for the baby: Paediatric dentistry from birth to 3 years of age. Caracas: Actualidades Médico Odontológicas Latinoamérica; 2009.
- Koch G. Paediatric dentistry. Clinical approach. Ed Amolca; 2011.
- Linder V. Development of the dentition. Ed Quintessence Books; 2016
- Nelson SJ. Dental anatomy, physiology and occlusion. Madrid: Elsevier; 2015.
- Romero M. History of Spanish paediatric dentistry between 1400 and 1800. Zaragoza: Pórtico; 1994.
- Samara G, Celemín A, López MA. Historical evolution of paediatric dentistry in Spain during the period 980-1990. Odontol Pediatr. 2003; 11(1):4-9.
- Sanz J. History of school dentistry in Spain. Madrid: 2003.

## 10. EDUCATIONAL GUIDANCE, DIVERSITY AND INCLUSION UNIT

From the Educational Guidance, Diversity and Inclusion Unit (ODI) we offer support to our students throughout their university life to help them achieve their academic achievements. Other pillars of our action 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 counselling and personalised 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, in terms of Methodological and Assessment, for those students with specific educational support needs, thus pursuing equal opportunities for all students.
3. We offer students different extracurricular training resources to develop various Competencies that will enrich their personal and professional development.
4. Vocational guidance through the provision of tools and counselling for 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](mailto:orientacioneducativa@universidadeuropea.es)

## 11. SATISFACTION SURVEY

Your opinion matters!

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

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



Your feedback is necessary to improve the quality of the Degree. Thank  
you very much for your participation.