

1. BASIC INFORMATION

Course	Stomatological Prosthetics IV
Degree program	Dentistry degree
School	Faculty of Biomedical and Health Sciences
Year	4th year
ECTS	6 ECTS
Credit type	Mandatory
Language(s)	English
Delivery mode	On-site
Semester	Second semester
Academic year	2025-2026
Coordinating professor	Ignacio Ortiz Collado

2. PRESENTATION

This subject concerns the diagnosis and treatment of the partially edentulous patient with fixed partial dentures and any other kind of fixed dental prostheses. It describes the physiopathology of those patients, as well as the treatment techniques, procedures and the materials used for treatment.

3. LEARNING OUTCOMES

Knowledge

KN01 Know the essential elements of the dental profession, including ethical principles and legal responsibilities.

KN02 Understand the importance of these principles for the benefit of the patient, society and the profession, with special attention to professional secrecy.

KN06 Understand the importance of maintaining and using patient information records for further analysis, preserving the confidentiality of the data.

KN10 Understand and recognize the sciences of biomaterials essential to dental practice, as well as the immediate management of potential allergies to them.

KN14 Understand and recognize the principles of ergonomics and safety at work (including cross-infection control, radiological protection and occupational and biological diseases).

KN17 Recognise the anatomy, physiopathology and oral pathology of a simulated patient in a pre-clinical environment in order to carry out a diagnosis and rehabilitative or restorative treatment.

KN27 To understand dental biomaterials: their handling, properties, indications, allergies, bio-compatibility, toxicity, waste disposal and environmental impact.

Subject-specific knowledge

- Describe the types of conventional and digital impressions available in the dental clinic.
- To become familiar with the different working models, both conventional and digital, available in the dental clinic.
- Explain the materials, fabrication methods, articulator fitting and cementing of provisional prostheses.
- Describe the different tests required during the fabrication of restorations, as well as their subsequent cementation.
- Explain the different types of treatment of dentures or implant-supported prostheses, through clinical history and diagnosis, in order to propose an appropriate treatment plan for each simulated clinical situation.

Skills

SK05 Know the scientific method and have the critical capacity to evaluate established knowledge and new information. Be able to formulate hypotheses, collect and critically evaluate information to solve problems, following the scientific method.

SK16 Acquire pre-clinical experience under appropriate supervision in simulated environments.

SK17 Solve clinical cases in a simulated environment.

SK18 Know and use basic equipment and instrumentation for dental practice.

Subject-specific skills

- Apply the fixed prosthetic treatment sequence in pre-clinical practice.

Competences

CP04 Manage, discriminate and select appropriate materials and instruments in dentistry.

CP15 Make diagnostic models, mount them and take inter-occlusal recordings.

CP16 Determine and identify the aesthetic requirements of the patient and the possibilities of satisfying their concerns.

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

4. CONTENT

- Conventional printing
- Digital prints
- Working models
- Provisionals

- Proofs of restorations
- Cemented
- Treatment of the partially and totally edentulous patient with implant-supported prostheses
- Analysis and resolution of clinical cases

5. TEACHING-LEARNING METHODOLOGIES

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

- MD1 Master class
- MD2 Case method
- MD8 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
AF1 Master clases	25
AF3 Case studies	18
AF8 Activities in workshops and/or laboratories	24
AF10 Autonomous work	79
AF12 On-site evaluation tests	4
TOTAL	150

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
SE1 On-site assesment tests	40%
SE4 Case / problem	20%
SE6 Performance evaluation	40%

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

In order to pass the course in the ordinary exam session, 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 subject 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 exam, so that it can be averaged with the rest of the evaluable activities that have been passed according to the criteria established in the learning guide.

The theory conforms a 40% of the final grade of the course. The evaluation will be a writing exam.

The exam will correspond to the totality (100%) of the final theory grade. It will consist on 40 questions multiple-choice, with one correct answer.

It is mandatory to answer to 80% of the questions, 32 of the 40 questions, answering to less than that, every unanswered question as well as every incorrect answer will subtract 33% (0.33point) to a correct answer. To pass the exam, a grade of 5 is required.

All practices will have to be attended physically at the laboratory practices and are MANDATORY.

The final practice grade (40%) will be the average of the graded corresponding practices.

Each one must be passed independently.

- Practical activities.

The practices will be graded at the end of the scheduled dates in the calendar. Every finished practice will have a grade (an average of the different criteria evaluation) and the final grade will be an average of all them, as long as every practice is passed independently.

If one of the practices remain unfinished or has been failed, it will be mandatory to recover it with a grade of 5 or more, during the assigned days or attending the follow-up period in July.

During the follow-up period no feed-back grades will be given. In July all the practices must be passed independently.

No final average will be made with a grade inferior to 5 in one of the practices.

The practices must be done and completed during the class hours, they cannot be completed outside those hours. NO LATE ENTRY TO THE LABORATORY AFTER THE START OF THE PRACTICE WILL BE ALLOWED.

The absence or not having the necessary material for such practice will be scored with a 0.

During the retake period the student will not receive feedback, having to independently pass each practice with a grade of 5 or more.

No average will be given with a grade lower than 5 in any of the practices.

The whole practice must be done at the time arranged for it, and it is not possible to continue outside the laboratory. Students must be punctual. tardiness will be evaluated as an absence.

Up to **two failed or missed** (with or without justification) practices may be recovered in the recovery weeks at the end of the semester, with **three or more practices** (failed or missed) it will be necessary to go directly to the July follow-up period.

The practices, material and evaluation rubrics are attached in the annex.

EVALUATION CRITERIAS OF THE CLINICAL CASE.

A clinical case will be presented based on the knowledge acquired during the course.

The clinical case exam will be evaluated through a 20 questions multiple-choice test where it will be mandatory to answer at least 80% of the questions, each question will have four options and one correct answer. An incorrect answer will subtract 0.33 points.

To pass the exam a grade of 5 or more will be required.

7.2. Second exam period

In order to pass the course in the extraordinary call, 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 exam, so that it can be averaged with the rest of the evaluable activities.

Depending on the parts not passed in the ordinary exam, 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 this test in the extraordinary call.
- If you have not passed the practical part of the subject (practical exam), you will have to take it again, according to the indications of the course professors.
- If any of the continuous assessment activities (theoretical or practical) have not been passed or were not presented in the ordinary exam, you must complete them in person during the follow-up period, at the established times. These activities may coincide with the original ones or be replaced by others, at the discretion of the professors.

To pass the course in the second exam period the student will have to retake and pass the failed parts during the first exam period. The evaluation criterias will be the same.

- To pass the course in the second period exam it will be mandatory to obtain a grade equal or superior to 5 over 10 in the final grade (weighted average), as long as all the different parts are passed to realize the average.
- The failed or unrepresented practices will have to be retaken during the follow-up period of July. It will consist on a practical exam where the student will have to bring a full arch dentate typodont. The retake will consist on teeth preparation that will be indicated by the professors. The evaluation criteria will be the same as during the year.
- The theoretical exam will have to be passed in the second exam period, the format and criteria evaluation being the same as is in the first period exam.
- The clinical case examination will have to be passed in the second period exam, the format and criteria evaluation being the same as in the first period exam.

8. SCHEDULE

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

Assessable activities	Deadline
MATERIA	SEMANA
FEED-BACK 1- PREPARACIÓN PRÓTESIS PARCIAL FIJA (PPF) METALPORCELANA 2 PILARES 1 PONTICO (34 Y 36)	1ª

PRÁCTICA 1-PREPARACIÓN PRÓTESIS PARCIAL FIJA (PPF) METALPORCELANA 2 PILARES 1 PONTICO (24 Y 26, NECESARIO 25 Y LLAVE DE SILICONA)	2ª
PRÁCTICA 2-PREPARACIÓN PPF PORCELANA MONOLÍTICA 2 PILARES 1 PONTICO (44 Y 46, NECESARIO 45 Y LLAVE DE SILICONA)	3ª
FEED-BACK 2- PREPARACIÓN PPF METALPORCELANA 2 PILARES 4 PONTICOS (33 Y 43, NECESARIOS 32,31,42,41 Y LLAVE DE SILICONA)	4ª
PRÁCTICA 3- PREPARACIÓN PPF METALPORCELANA 2 PILARES 4 PONTICOS (33 Y 43)	5ª
PRÁCTICA 4- PREPARACIÓN PPF METALPORCELANA 3 PILARES 2 PONTICOS (13,15,17)	6ª
PRÁCTICA 5- PREPARACIÓN PPF CERÁMICA ESTRATIFICADA 4 PILARES 2 PONTICOS (13,12,22,23)	7ª
FEED-BACK 4- PROVISIONAL 2 DIENTES (44-46)	8ª
PRÁCTICA 6- PROVISIONAL 6 DIENTES (33-43)	9ª
PRÁCTICA 7- PROVISIONAL 3 DIENTES (24-26)	10ª
PRÁCTICA 10- SIMULACIÓN AVANZADA EN SIMODONT- PROTESIS PARCIAL FIJA ZIRCONIO + ESCANEADO DIGITAL	11ª
PRÁCTICA 8- IMPRESIÓN SILICONA SOBRE DIENTE PREPARADOS. DOS TÉCNICAS	12ª
PRÁCTICA 10- SIMULACIÓN AVANZADA EN SIMODONT- PROTESIS PARCIAL FIJA ZIRCONIO + ESCANEADO DIGITAL	13ª
PRÁCTICA 9- IMPRESIÓN SILICONA SOBRE IMPLANTES	14ª
PRÁCTICA 10- SIMULACIÓN AVANZADA EN SIMODONT- PROTESIS PARCIAL FIJA ZIRCONIO + ESCANEADO DIGITAL	15ª

RECUPERACIÓN DE PRACTICAS

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any changes as and when appropriate.

9. BIBLIOGRAPHY

The main reference work for this subject is:

- Shillingburg, H.T. et al: Fundamentals of fixed prosthodontics, 4th ed. Quintessence Books.
- Rosenstiel, Land, Fujimoto. PROTESIS FIJA CONTEMPORANEA. Elsevier mosby.
- Jeffrey P Okesson. Management of temporomandibular disorders and occlusion. Mosby Elsevier.
- Gracis S et al. A new classification system for all-ceramic and ceramic like restorative materials. The international journal of prosthodontics. 2015. 28(3).227-235.
- Martínez Rus et al: Cerámicas dentales: clasificación y criterios de selección. RCOE, 2007, Vol. 12, Nº4.
- Ralph Riquier: Comparación de la técnica de fresado y la sinterización por láser. Quintessence técnica (ed. esp.). Volumen 18, Núm. 2. Febrero 2007
- The ideal restoration of endodontically treated teeth- estructural and estethetic considerations: a review of the literature and clinical guidelines for the restorative clinician. Konrad meyenberg
- La Tecnología CAD/CAM en la Consulta dental. The CAD / CAM Technology in Dental Consultation. Macías, F. Volumen IV. Número 1. Enero - Abril 2015. <http://www.rodyb.com/la-tecnologia-cadcam>

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 mean 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 opportunity 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

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 on virtual campus or via e-mail.

Your assessment is necessary for us to improve.

Thank you very much for your participation.