

## 1. BASIC INFORMATION

Course	PROSTHODONTICS II
Degree program	GRADE IN DENTISTRY
School	BIOMEDIC AND HEALTH SCIENCES FACULTY
Year	THIRD
ECTS	6 ECTS
Credit type	MANDATORY
Language(s)	SPANISH/ENGLISH
Delivery mode	ON-SITE
Semester	SECOND
Academic year	2025-2026
Coordinating professor	BEGOÑA OTEIZA GALDÓN

## 2. PRESENTATION

The aim of the subject is to know how to apply the basic principles and the standards of planning and carrying out a treatment with removable prosthesis in the partially edentulous patient, being able to discern the relationship between occlusion, function, anatomy and aesthetics as it applies to the construction of a removable partial denture.

This area intends to know the specific situation of the partially edentulous patient and his treatment. Acquire the ability to design, develop and insert removable partial dentures, both cast metal structure as well as complete resin prosthesis, according to each clinical situation.

Also present Implantology as a possible treatment for the partially edentulous patient, concepts and basic principles.

## 3. COMPETENCIES AND LEARNING OUTCOMES

### Basic competencies:

- BC1: Students must show and understand concepts in an area of study that starts from the basics of general secondary education, and is often found at a level that, although it

is supported by advanced textbooks, includes also some aspects that involves knowledge from the vanguard of their study field.

- BC2: Students must know how to apply their knowledge to their work or vocation in a professional manner and possess skills that tend to be demonstrated through the elaboration and defence of arguments and solving problems within their study field.
- BC4: Students should be able to transmit information, ideas, problems and solutions to both specialized as non-specialized audiences.
- BC5: Students must have developed those learning skills needed to undertake studies with a high degree of autonomy.

#### **General Competencies:**

- GC1: Learn the essential elements of a dentist's work, including the ethical and legal responsibilities.
- GC2: Understand the importance of such principles for the benefit of the patient, society and the profession, with particular attention to the obligation of professional secrecy.
- GC3: Ability to identify the concerns and expectations of the patient, as well as communicate in clear and effective way both orally and writing, with patients, family members, media, and other professionals.
- GC9: Ability to understand the importance of maintaining and using records with patient information for further analysis, preserving the confidentiality of the data.
- GC12: Ability to understand and recognize the structure and normal function of the oral cavity, at the molecular, cellular, tissular and organic level at different stages of life.
- GC13: Ability to understand and recognize the essential about dental practice biomaterials, as well as the immediate management of possible allergies to them.
- GC14: Knowledge of the overall processes of the illness, which include infection, inflammation, alterations of the immune system, degeneration, neoplasia, metabolic disorders and genetic disorders.
- GC15: Be familiar with the general pathological characteristics of diseases and disorders affecting organic systems, specifically those that have an oral impact.

- GC16: Ability to understand the fundamentals of action, indications and efficacy of drugs and other therapeutic interventions, knowing their contraindications, interactions, systemic effects and interactions with other organs, based on the scientific evidence available.
- GC19: Knowledge of the scientific method and have a critical capacity to assess the established knowledge and the new information. To be able to formulate hypothesis, to collect and to evaluate critically the information for the resolution of problems, following the scientific method.
- CG25 - Ability to know and apply the basic treatment of the most common oral pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasion and a comprehensive and integrated approach to oral treatment.
- CG26 - Ability to plan and perform multidisciplinary, sequential and integrated dental treatments of limited complexity in patients of all ages and conditions and patients who require special care.
- CG27 - Capacity to propose and propose the appropriate preventive measures for each clinical situation.

#### **Transversal Competencies:**

- TC1: Responsibility: The student must be able to assume the consequences of the actions he performs and respond to his own actions.
- TC2: Self-confidence: The student must be able to act safely and with sufficient motivation to achieve his goals.
- TC4: Communicating skills: The student must be able to express concepts and ideas effectively, including the ability to communicate by writing with conciseness and clarity, as well as to speak in public in an effective way.
- TC5: Interpersonal comprehension: The student must be able to make an active listening in order to achieve an agreements using a style of assertive communication.
- TC7: Teamwork: The student must able to participate in an active way in the achievement of a common objective, listening, respecting and valuing the ideas and proposals of the rest of members of his team.
- TC8: Initiative: The student must be able to pro-actively propose solutions or alternatives to the situations presented.

- TC9: Planning: The student will be able to effectively determine his goals and priorities by defining the actions, timelines, and optimal resources required to achieve such goals.
- TC10: Innovation-Creativity: The student must be able to devise new and different solutions to problems and provide value to any problems that arise.

### **Specific Competencies:**

- SC34 – apply basic dental treatments in all age patients, following minimal invasion criteria and a comprehensive approach.
- SC35 – make the diagnosis and treatment in all age patients with special conditions (Diabetes, hypertension, oncologic, transplanted, anticoagulated etc ) or handicapped patients. Dentist should be able to make the diagnosis and treatment of orofacial pain, TMJ disorders, bruxism; periapical and dental pathology; dental traumatism; periodontal and periimplant pathology; maxillary bone pathology and adjacent glands; partially or totally edentulous patients; oral rehabilitation treatment with dental or mucous based prosthesis, or with implants; dental malocclusion; orthodontic treatment.
- SC37 –To build diagnostic casts, mounting and taking interocclusal records.
- SC48 - Perform simple surgical procedures: extraction of erupted temporary and permanent teeth, fractured or retained roots and uncomplicated surgical extraction of unerupted teeth and simple pre-prosthetic surgery procedures.
- SC50 - Treat both pharmacologically and surgically the inflammatory processes of periodontal and/or peri-implant tissues, including supra and subgingival periodontal instrumentation techniques.
- SC51 - Assess and treat the patient with caries or other non-carious dental pathology and be able to use all the materials aimed at restoring the shape, function and aesthetics of the tooth in patients of all ages.
- SC56 –treatment of partial or total edentulism, including biological design, teeth preparation, obtaining records, clinical trials, and adaptation of removable partial or total prosthesis, bridges supported by teeth, and simple prosthesis on implants, both fixed and removable, including all necessary clinical steps.
- SC61 - Plan, determine the specific characteristics of design, registrations, prescription, clinical tests, placement and clinical adjustment for commissioning fixed and removable

space maintainers and interceptive orthodontic techniques as well as removable active elements intended to move teeth or correct crossbites.

### Learning outcomes:

- LR1: Know the anatomy of the partially edentulous patient.
- LR2: Know the physiology of the partially edentulous patient.
- LR3: Go into detail about the physiopathology of the partially edentulous patient.
- LR4: Analyze the prognosis of different clinical cases and its treatment.
- LR5: Learn concepts about the clinical sequence treatment in the partially edentulous.
- LR6: Learn in Depth treatment laboratory steps with partial dentures.
- LR7: Manage with precisión the occlusal schemes in partially edentulous patients and its correct election depending on the clinical case.
- LR8: Learn indications and clinical consequences of immediate denture treatments.
- LR9: Learn indications and clinical consequences of treatments with tooth and implant supported overdentures.
- LR10: To fix concepts about the clinical sequences of the treatment of the total and partial edentulous through tooth and implant supported overdentures.
- LR11: To study in depth the laboratory phases of the treatment with tooth and implant supported overdentures.
- LR12: Accurately handle the occlusal schemes in partially and completely edentulous patients who are going to be treated with overdentures.

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

Competencies	Learning outcomes
BC1, BC2, BC4, BC5, GC1, GC2, GC3, GC14, GC15, GC16, GC27, TC4, TC5 SC34, SC48, SC50, SC51, SC61	LA1-LA2-LA3-LA4

BC4, BC5, GC9, GC13, GC19, GC26 TC4, TC5, TC7, TC9, TC10 SC35, SC37, SC56	LA5-LA6-LA7-LA8
BC4, BC5, GC13, GC26, GC27 TC4, TC5, TC9, TC10 SC35, SC56	LA9-LA10-LA11-LA12-LA13

## 4. CONTENTS

### THEORETICAL CONTENT:

UNIT 1: THE PARTIALLY EDENTULOUS PATIENT

RESIN BASES AND INDIVIDUAL TRAYS

ACTIVITY: CLASSIFICATION OF PARTIALLY EDENTULOUS ARCHES "KENNEDY"

UNIT 2: COMPONENTS OF THE RPD. BIOANATOMICAL & MECHANICAL FACTORS

PRESENTATION

UNIT 3: MAJOR & MINOR CONNECTORS

UNIT 4: PATH OF PLACEMENT & REMOVAL, OCCLUSAL RESTS"

UNIT 5: DIRECT RETAINERS

UNIT 6: INDIRECT RETENTION

UNIT 7: PROSTHETIC BASES

UNIT 8: RPD DESIGN

UNIT 9: BIOMECHANICS IN RPD

UNIT 10: RPD PLANNING

UNIT 11: IMPRESSIONS IN RPD

UNIT 12: SURVEYOR

UNIT 13: CLINICAL SESSIONS

UNIT 14: RESIN RPD

UNIT 15: LABORATORY TECHNIQUES

UNIT 16: OCCLUSION IN RPD RPD"

UNIT 17: RPD FINISHING

UNIT 18: IMPLANTOLOGY CONCEPTS

UNIT 19: BONE TYPES & CONNECTIONS"

UNIT 20: IMPRESSION TYPES & TREATMENT OPTIONS IN IMPLANTOLOGY

CLINICAL SESSIONS IN RPD SEMINARY

#### **PRACTICES CONTENT:**

1. IMPRESSIONS PRELIMINARES
2. RESIN BASES PREPARATION
3. FACE BOW AND INTERMAXILLARY RECORDS
4. ARTICULATOR MOUNTING
5. DESIGN
6. SURVEYING
7. INDIVIDUAL TRAY
8. TEETH PREPARATION & FINAL IMPRESSION
9. IMPLANTS
10. CLINICAL CASES

## **5. TEACHING-LEARNING METHODOLOGIES**

The following are the types of teaching-learning methodologies to be applied:

- Lecture.
- Clinical cases.
- Simulation environments.
- Learning based in projects.

## **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:**

Formative activity	Number of hours
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Tutorial Sessions	18
Master Classes	22
Virtual Master Classes	6
Portfolio	8
Clinical Cases	17
Laboratory Practices	33
Self Study	44
In-person tests	2
<b>TOTAL</b>	<b>150 h</b>

## 7. ASSESSMENT

To be able to matriculate in the subjects "Prosthodontics I and II" it is mandatory to have passed the subjects "Normal and Pathological Occlusion".

To be able to matriculate in the subject "Prosthodontics II" it is mandatory to have taken the subject "Prosthodontics I".

Listed below are the assessment systems used and the weight each one has upon the final course grade:

### Campus-based mode:

Assessment system	Weight
Knowledge Test	45 %
Case-Problem	10 %
Practices	40%
Portfolio	5 %

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 assessment period

To pass the course in the first exam period, you must obtain a grade greater than 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 greater than or equal to 5.0, independently, in each of the evaluation systems that make up the course.

The Universidad Europea de Valencia establishes continuous assessment as a system of evaluation of knowledge, skills and basic, general, transversal and specific competences of the degree in Dentistry, in accordance with the provisions of the Regulations for the evaluation of undergraduate degrees. In this regard and for the purposes of the consumption of calls the student should be aware that, if any evaluation system provided in the Learning Guide, in the ordinary call the student will have an overall grade of the subject, thus consuming call.

According to the aforementioned Regulations, students taking face-to-face degree courses are required to justify at least 50% of class attendance, as a necessary part of the evaluation process and in the case of theoretical or practical classes determined as mandatory by the teacher in the schedules of the subject, the student must register an attendance of 90%, whether the absence is justified or not. The lack of accreditation by the means proposed by the University will entitle the professor to grade the subject as failed in the ordinary call, according to the grading system.

Regarding the mandatory attendance of 50% of classes, this must be done in person, in the classroom. In other words, attendance will only be considered for those students who are physically present in the classroom, with participation through Hyflex being considered as "absent."

Punctuality will be required, 3 delays of more than 15 minutes or departures before class will be counted as a lack of attendance.

The student must consult in the schedule of the course in the Virtual Campus the sessions of compulsory attendance in the classroom.

The mention of "Matrícula de Honor" will be awarded to students who have obtained a grade equal to or higher than 9.0. Their number may not exceed 5% of the students enrolled in each subject in the corresponding academic year, unless the number of students enrolled is less than 20, in which case only one honorary registration may be awarded.

## **7.2. Second assessment period**

To pass the course in the second 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 greater than or equal to 5.0 in the final test, so that it can be averaged with the rest of the activities.

The activities that were not passed in the ordinary exam must be handed in, after having received the corresponding corrections from the teacher, or those that were not handed in.

The Universidad Europea de Valencia establishes the continuous evaluation as a system of assessment of knowledge, skills and basic, general, transversal and specific competences of the degree in Dentistry, in accordance with the provisions of the Regulations for the evaluation of undergraduate degrees. In this regard and for the purposes of the consumption of calls the student should be aware that in the extraordinary call will be the Objective Test of Knowledge (POC) which determines whether or not to consume call and in the exceptional case that only has pending to overcome evaluation system /s that are not the POC, will be considered NP if not presented and will obtain a numerical grade if you present at least one of them.

Pursuant to the aforementioned Regulations, students taking face-to-face degree courses are required to justify at least 50% of class attendance, as a necessary part of the evaluation process, and in the case of theoretical or practical classes determined as mandatory by the teacher in the schedules of the subject, the student must register an attendance of 90%, whether the absence is justified or not. Those students who, due to non-compliance with this requirement, must appear in the extraordinary call, must perform as many activities or knowledge tests determined by the teacher to recover this part and its corresponding overcoming based on the specified rubric.

## 8. SCHEDULE

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

Assessable activities	Deadline
Knowledge/Theory Test	June
Clinical case	June
Practices	Continuous assessment
Portfolio	May-June

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:

- McGivney, Castleberry. McCracken. Prótesis Parcial Removable. Editorial Médica Panamericana.
- Mallat, Keogh. Prótesis Parcial Removable. Clínica y laboratorio. Ed. Mosby/Doyma libros.
- Boucher, Renner. Rehabilitación del Desdentado Parcial. Interamericana.
- Kratochvil. Prótesis Parcial Removable. Interamericana.
- Stratton R.J. y Wiebelt F.J. An Atlas of Removable Partial Denture Design. 1988. Quintessence Books.

Complementary bibliography:

- Stewart. Clinical removable partial prosthodontics.
- Pospiech P. Tratamiento preventivo con prótesis parciales. 2003 Ars Médica.
- Mallat. Prótesis parcial removable y sobredentaduras. Ed Elsevier.

- Brudvik. Advanced removable partial dentures.
- Garber. Atlas de Prótesis parcial. 1988. Ed. Masson. Barcelona.

## 10. EDUCATIONAL GUIDANCE AND DIVERSITY INCLUSION UNIT

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