

1. BASIC INFORMATION

Course	Prosthodontics I
Degree program	DENTISTRY
School	Health of sciences
Year	Third
ECTS	6
Credit type	Mandatory
Language(s)	Spanish/english
Delivery mode	In-person classes
Semester	First semester
Academic year	2020-2021
Coordinating professor	Ana Candel / Begoña Oteiza

2. PRESENTATION

The aim of the subject is to know to apply the basic principles and fundamental concepts in planning and realization of treatment with removable prostheses in the fully edentulous patient, being able to discern the relationship between the occlusion, function, anatomy and aesthetics as it applies to the preparation of a removable complete denture.

The main goal of this subject is to know the situation of the totally edentulous patient and sequential treatment through a complete denture. Acquire the ability to design, develop and insert removable and immediate complete prostheses adapted to each clinical situation that later the student must apply in the dental clinic.

3. COMPETENCIES AND LEARNING OUTCOMES

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

Competencies	Learning outcomes
CB1 CT4, CT5	LR1

CB1, CG12 CT4, CT5	LR2
CB2, CG14, CG15, CG16 CT4, CT5 CE34	LR3
CB2, CG1, CG2, CG3 CT1, CT4, CT5 CE35, CE56	LR4
CB5, CG9, CG13, CG19 CT4, CT5, CT7, CT9 CE35, CE37, CE56	LR5
CB4, CG9, CG13 CT4, CT5 CE35, CE37, CE56	LR6
CB2, CG13, CG9 CT4, CT5 CE35, CE56	LR7
CB2, CB4, CB5, CG19 CT4, CT5, CT9 CE35, CE56	LR8

4. CONTENT

THEORETICAL CONTENT:

THEMATIC UNIT 1:

Lesson 1. Occlusal schemes in Prosthetics: mutually protected occlusion; group-based occlusion; balanced occlusion.

Lesson 2: Dental articulators and face bows: concept, classification and purposes of use. Eccentric records and semi-adjustable articulator adjustment. Recording instrument for condyle movements: axiographs and pantographs.

THEMATIC UNIT 2:

Lesson 3: The patient fully edentulous: general considerations. Morphological and functional changes of the stomatognathic apparatus in the total tooth. Fully toothed patient clinical history and examination. Intrabuccal topographical anatomy of total toothless.

Lesson 4: Diagnosis and treatment plan Clinical history and examination of the fully toothed patient. Pathology related to PTR.

Lesson 5: Complete Prosthetic Concept: Principles of support, retention, and stability.

Lesson 6: Full Prosthetic Prints: Anatomical and Functional Techniques. Clinical systematics.

Obtaining work models. Printing materials.

Lesson 7: Recording the Vertical Dimension in Complete Prosthetics

Lesson 8: Intermaxillary Records

Lesson 9: Artificial teeth: functions, features and properties; materials and their selection.

Lesson 10: Clinical sessions for the making of the PTR (1st part)

Lesson 11: Assembling artificial teeth. Occlusal schemes: Balanced bilateral occlusion, lingualized occlusion and monoplane occlusion. Features and indications.

Lesson 12: Clinical testing of the prosthesis

Lesson 13: Complete Prosthetic Laboratory Technology. Prosthetic bases: functions and properties. Materials and techniques for its manufacture. Flask. Polymerization and finishing.

Lesson 14: Selective grinding. Reassembly and occlusal adjustment in Complete Prosthetics. Concept, justification and purposes. Clinical and laboratory techniques.

Lesson 15: Placement of the prostheses in the patient. Adjustments and corrections. Tips for use and maintenance. Periodic reviews. Overrun and adjustments. Breaks and repairs.

Lesson 16: Clinical sessions for the making of the RCD (Part 2)

Lesson 17: Immediate prosthesis. Concept. Advantages and drawbacks. Indications and contraindications. Clinical and laboratory phases.

THEMATIC UNIT 3:

Lesson 18a: Treatment with detorespire overdents. Concept and generalities.

Lesson 18b: Connection types.

Lesson 18c: Clinical sessions. Maintenance and complications.

Lesson 18d: Double crowns.

PRACTICES CONTENT:

Practice 1: Preliminary impressions in the completely edentulous patient

Practice 2: Making individual trays

Practice 3: Taking final impressions

Practice 4: Making resin bases

Practice 5: Face bow record and intermaxillary records

Practice 6: Mounting the upper and lower model casts

Practice 7: Mounting teeth. Includes a tooth arrangement seminar taught by Ivoclar lab technicians.

Practice 8: Resolution of real clinical cases giving treatment alternatives and planning clinical sessions for their realization.

5. TEACHING-LEARNING METHODOLOGIES

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

- Master class.
- Case method.
- Simulation environments
- Problem-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	29.3
Portfolio	6.6
Case studies	2.6
Laboratory practices	58.6
TOTAL	97.1h

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Assessment system	Weight
Knowledge self-assessment	45 %
Laboratory practices	40 %
Clinical cases	10 %
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 exam period

To overcome the subject in ordinary call you must independently pass each of the tests. Under no circumstances, a grade lower than a 5 will compensate or make an average with any of the other tests.

7.2. Second exam period

To overcome the extraordinary exam, you must overcome those parts that you have not passed in the ordinary call. The student will only have to do the part that has not passed, so that the parts of the subject passed in the ordinary call will be kept till the extraordinary call finishes. They will be tests of the same characteristics.

8. SCHEDULE

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

Assessable activities	Deadline
Knowledge self-assessment	January
Clinical cases	Date to be determined
Laboratory practices	January
Portfolio	Date to be determined

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 recommended bibliography is the following:

- Koech. Prótesis Completas. Ed Elsevier. Barcelona, 2007
- E. Mallat Desplats , E. Mallat Callís Prótesis parcial removible y sobredentaduras. 2004. Ed. Elsevier. Madrid
- Grunert I, Crepez M. Prótesis total. Ed. Quintessence . Barcelona, 2008.



- Zarb, Kobkirk, Eckert, Jacob. Prosthodontic treatment for edentulous patients. Complete dentures and implant supported prostheses. Ed Elsevier 2013.

Complementary bibliography:

- Wirz J. Hoffman A. Electroformación en Odontología Restauradora: Nuevas facetas de la Prótesis Biológicas. Quintessence, 2004.
- Milano V. Desiate A. Prótesis total. Aspectos gnatológicos. Conceptos y procedimientos. AMOLCA. 2011
- Fonollosa Pla. Prótesis Completas Sobredentaduras y Prótesis Híbridas. 2014. Ed. Especializadas Europeas
- Basker RM, Davenport JC, Thomason JM. Prosthetic treatment of the edentulous patient (5ª Ed) Wiley-Blackwell 2011.

10.DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.

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.