

**Información del Plan Docente**

<b>Academic Year</b>	2016/17
<b>Academic center</b>	229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	442 - Degree in Odontology
<b>ECTS</b>	9.0
<b>Course</b>	3
<b>Period</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

**1.Basic info****1.1.Recommendations to take this course****1.2.Activities and key dates for the course****2.Initiation****2.1.Learning outcomes that define the subject****2.2.Introduction****3.Context and competences****3.1.Goals****3.2.Context and meaning of the subject in the degree****3.3.Competences****3.4.Importance of learning outcomes****4.Evaluation****5.Activities and resources****5.1.General methodological presentation**

The learning process that has been design for this subject is based on:

Three tipos of activities:

## 29324 - Prosthesis I

### Work with materials and process with a symbolic nature.

- Professor's presentation through magistral lectures.
- Workshops. The students and the professor will show and introduce the use of the articulator and all the materials related to the complete denture prosthesis.
- Student study of the recommended texts.

### Analysis and diagnosis in contextualised situations.

- Workshops with presentation and group analysis of student's casts mounted on semi-adjustable articulator.
- Study and video display of different prosthetic techniques accompanied by comments and analysis in groups.

### Achievements in context close to reality.

- Laboratory practices with their own dental casts. The practice is made with real materials and instruments.
- Preclinic and laboratory practices with plastic casts that reproduce the anatomical condition of edentulism in a similar context to a real patient.

### 5.2.Learning activities

- Magistra lectures.
- Clinical Cases Sessions.
- Complementary Workshops.
- Resolution of doubts in common.
- Activity participation of the students in teaching.

### 5.3.Program

#### Program

The program offered to students for helping them to achieve the expected outcomes includes these activities...

#### Presentation

**Issue 0:** Dental Prosthesis Concept. Objectives. Course organization. Theoretical and Practical program. Schedule. Rules. Evaluation Criteria. General bibliography.

#### Occlusion

##### Issue 1: Mounting casts on articulator

- Study and video display.
- **Workshop** . Articulator description.
- **Work** in group of three. Exposure and comments in groups.

## 29324 - Prosthesis I

**Issue 2:** Concept, integrant elements and functions. Anatomy and physiology of dental archs.

- **Magistral Lesson.**
- **Laboratory Practice:** Alginate impressions. Casting.

**Issue 3:** Temporomandibular Joint (TMJ). Mandibular Dynamics. Neuro-muscular organization.

- **Magistral Lesson.**
- **Laboratory Practice:** Trim and plinth.

**Issue 4:** Stomatognathic system physiology. Chewing, swallowing, breathing, phonation, aesthetics and reflexes.

- **Magistral Lesson.**
- **Laboratory Practice:** Facebow transfer. Maxillary cast assembly.

**Issue 5:** Cephalometrics applied to prosthesis. Points, plans, cranio-facial-mandibular indices.

- **Magistral Lesson.**
- **Laboratory Practice:** Centric Relation registration. Mandibular cast assembly.

**Issue 6:** Occlusion Concept. Teeth alignment. Occlusal morphology. Occlusion during mandibular dynamics.

- **Magistral Lesson.**
- **Laboratory Practice:** Registration of the inclination of the condylar guidance and Bennett Angle.

**Issue 7:** Compatibility between occlusal morphology and mandibular dynamics.

- **Magistral Lesson.**
- **Workshop:** Discussion in groups about the occlusal pathologic findings in the students.

**Issue 8:** Occlusion Theories. Centric Relation. Centric Occlusion. Habitual Occlusion. Mutually protected occlusion. Bilateral balanced occlusion. Group Function. Dysfunctions.

- **Magistral Lesson.**
- **Workshop:** Students presentations of pathologic findings.

**Issue 9:** Facebows and articulators.

- **Magistral Lesson.**
- **Laboratory Practice:** Incisal guide reproduction.

### Complete Edentulism

**Issue 10:** Edentulous patient. Evolution changes because of age. Anatomical and functional evolution in edentulous patients.

- **Magistral Lesson.**

**Issue 11:** Clinical History, clinical and complementary explorations, diagnosis, prognosis and treatment plan in edentulous patients.

- **Magistral Lesson.**
- **Workshop:** Clinical History.

## 29324 - Prosthesis I

**Issue 12:** Complete Prosthesis. Concept and general characteristics. Biomechanical and retention principles. Prosthetical space.

- **Magistral Lesson.**
- **Workshop:** Clinical History.

**Issue 13:** Impressions in complete prosthesis. Impression materials, individual trays and casts.

- **Magistral Lesson.**
- **Preclinic Practice:** Incial impressions in edentulous typodont.

**Issue 14:** Base Plates and wax rods.

- **Magistral Lesson.**
- **Preclinic Practice:** Articulator mounting with Split-cast.

**Issue 15:** Transference and resiter of intermaxillary and caniomaxillary relations.

- **Magistral Lesson.**
- **Preclinic Practice:** Individual tray manufacture. Work impressions.

**Issue 16:** Artificial teeth. Mount and articulate of artificial teeth. Occlusion in complete prosthesis.

- **Magistral Lesson.**
- **Preclinic Practice:** Base plates manufacture.

**Issue 17:** Prosthesis test. Evaluate data: Aesthetics and functional.

- **Magistral Lesson.**

**Issue 18:** Wax-up, muffling, demuffling and prosthesis obtention.

- **Magistral Lesson.**
- **Precilinic Practice:** Teeth wax articulation.

**Issue 19:** Articulator test, remounting, laboratory selective grinding and prosthesis finishing.

- **Magitral Lesson.**

**Issue 20:** Prosthesis installation in mouth. Aesthetic, functional and stability checks. Patient instructions.

- **Magistral Lesson.**
- **Preclinic Practice:** Muffling and demuffling.
- **Level Test.**

### 5.4.Planning and scheduling

**Presential sessions and work presentations schedule.**

Subject important dates such as register o global exam date, as well as academic calendar and updated shedule are reflected in the faculty web page:

<https://fccsyd.unizar.es/odontologia/grado-odontologia>

## 5.5. Bibliography and recommended resources

### Basic Bibliography:

- Okeson, Jeffrey P. Tratamiento de la oclusión y afecciones temporomandibulares. Barcelona : Elsevier España, 2003
- Bortolotti, Lilia. Prótesis removibles : clásica e innovaciones / Lilia Bortolotti . Caracas : Amolca, 2006
- Geering Alfred H. Atlas de prótesis total y sobredentaduras. Barcelona : Masson-Salvat, 1993 Prótesis completas / dirigido por B. Koeck; con la colaboración de J. Besford. . 4ª ed. Barcelona [etc.] : Elsevier Masson, 2007.

### Complementary bibliography:

- Pessina Edoardo. Articuladores y arcos faciales en prótesis odontológica y gnatología / Edoardo Pessina, Mario Bosco, Alessandro M. Vinci. Barcelona : Salvat, 1994
- Campos Ortega, Agustín. Rehabilitación oral y oclusal. Madrid : Harcourt, 2000
- Campos Ortega, Agustín. Procedimientos clínicos de laboratorio en rehabilitación oral/oclusal. Madrid : Harcourt, 2000
- Casado Llompart, José Ramón. Tratamiento del desdentado total / José Ramón Casado Llompart. Madrid : José Ramón Llompart, 1991
- Fonollosa Pla, Josep Maria.. Prótesis removible de resina / Josep Ma Fonollosa Pla ; directoras Caterina Casado Latorre, Ma Angeles Chavarría Lorente. . Barcelona : Masson, 2004.
- Alonso, Aníbal Alberto. Oclusión y diagnóstico en rehabilitación oral / Aníbal Alberto Alonso, Jorge Santiago Albertini, Alberto Horacio Bechelli . 1a ed., 4a reimp. Buenos Aires : Editorial Médica Panamericana, 2005
- Öwall, Bengt. Odontología protésica : principios y estrategias terapéuticas / Öwall, Arnd F. Käyser, Gunnar E. Carlsson. Madrid : Mosby, 1997