

## 29351 - Implantology

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 29351 - Implantology

**Faculty / School:** 229 - Facultad de Ciencias de la Salud y del Deporte

**Degree:** 442 - Degree in Odontology

**ECTS:** 6.0

**Year:** 4

**Semester:** First semester

**Subject Type:** Optional

**Module:** ---

### 1.General information

#### 1.1.Aims of the course

#### 1.2.Context and importance of this course in the degree

#### 1.3.Recommendations to take this course

### 2.Learning goals

#### 2.1.Competences

#### 2.2.Learning goals

#### 2.3.Importance of learning goals

### 3.Assessment (1st and 2nd call)

#### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

### 4.Methodology, learning tasks, syllabus and resources

#### 4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as theory sessions, practice sessions, assignments, and tutorials.

#### 4.2.Learning tasks

This course is organized as follows:

- **Theory sessions.** This is the most appropriate session for low cognitive level objectives (such as acquiring information, understanding, etc.). During the exhibition dialogue will be encouraged by asking questions, Problem Based Learning, solving doubts, etc. Thematic exhibitions will be supported by diagrams and illustrations with Power Point presentations. In addition, seminars will be held, in the form of theoretical and practical workshops taught by the teacher or invited speakers to deepen topics of special interest.
- **Practice sessions.** Preclinical and clinical. Composed of a series of activities that combine individual work and cooperative work. Depending on the proposed exercise will take place in the classroom, preclinical classroom or the Dental Clinic. Attendance at practices and the presentation of the portfolio will be mandatory.
- **Individual and group work.** We will look also reinforce autonomous learning, through case work in groups (or individual), within a reciprocal teaching methodology. Group work will include search and literature review, writing and oral presentation in class encouraging reflection.

- **Tutorials.** Devoted to answer questions or provide a specific bibliography of a specific topic in relation to the theoretical and practical contents of the subject.

\* Given the exceptional situation of this academic year 2020/21, if it is not possible to perform these activities in the classroom, they will be carried out with teachers and students synchronously connected through technologies that allow interaction (ie. Google Meet) or previously recorded and made available to students in the corresponding course on the Moodle platform, mainly through links to recordings saved in a repository (ie. Google Drive).

### 4.3.Syllabus

This course will address the following topics:

- 1: Introduction to Oral Implantology
- 2: The osseointegration. Soft tissue response around dental implants.
- 3: Anatomy applied to implantology
- 4: History. Indications and contraindications of implants. Informed consent.
- 5: Diagnosis and patient selection
- 6: Surgical Planning partial and total edentulous patient.
- 7: Materials in implantology. Concept of biocompatibility.
- 8: Macroscopic and microscopic design of implants.
- 9: Surgical field. Instruments and sterilization.
- 10: Basic Surgical Technique: Phases of treatment. surgical protocols, monitoring and maintenance of postoperative patients.
- 11: Implants after extraction: indications and contraindications.
- 12: Treatment of maxillary atrophies and types of grafts and materials. Osteotomies and osteoplasties.
- 13: Complementary surgical techniques
- 14: Guided tissue regeneration
- 15: Aesthetics in implantology. Mucogingival surgery and soft tissue management.
- 16: Complications in implantology. Criteria for long-term success. Importance of periodic check.
- 17: Types and designs of implant prosthetics
- 18: Charging in implantology
- 19: Computer Guided Surgery

Practical program

- I: Exploration and Diagnosis in implantology
- II: Diagnosis and treatment planning partial and edentulous.
- III: Instruments, equipment and surgical equipment in implantology.
- IV: Surgical technique of implants on models.

### 4.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates ( <https://fccsyd.unizar.es/academico/horarios-y-calendarios>) and other details regarding this course will be provided on the first day of class or please refer to the Faculty of Health and Sports Sciences website and Moodle.

### 4.5.Bibliography and recommended resources

#### RECOMMENDED BIBLIOGRAPHY

- Periodontología Clínica e Implantología Odontológica. Jan Lindhe. Ed Panamericana. España 2000.
- Implant Dentistry. Weiss ChM y Weiss A. Mosby. St. Louis, Mi 2001
- Factores de riesgo en implantología oral. Franck Renoauard. Quintessence 2000
- Manual de periodoncia y terapéutica de implantes. Fundamentos y guía práctica. SEPA Sociedad Española de Periodoncia y Oseointegración. José Javier Echevarría, Juan Blanco Carrión.
- Implantología Oral. Peñarrocha M, ed. Barcelona: Ars Médica. 2001. ISBN: 84-95670-05-4. Reimpresión 2006.
- Implantología contemporánea. Misch CE. 2009. Elsevier. Dental Implants Prosthetics. Misch CE. 2005. Mosby. New York.
- 20 años de Regeneración Ósea Guiada en Implantología Oral. Buser D. 2012. Quintessence. Barcelona.