

Academic Year/course: 2022/23

29338 - Clinical Orthodontics

Syllabus Information

Academic Year: 2022/23

Subject: 29338 - Clinical Orthodontics

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

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 5

Semester: First semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

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 lectures, seminars, practice sessions, autonomous work, and study and tutorials.

4.2. Learning tasks

This course is organized as follows:

- 1. Lectures (24h):** The teacher will introduce theory contents and students' participation will be promoted. Teacher explanations will be supported by diagrams and illustrations in PowerPoint presentations. This material will be provided to students through photocopies. In certain topic sections, additional material will be provided and will encourage the realization of concept maps in order to achieve deeper learning.
- 2. Seminars, case presentations and guided work (13h):** 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. Presentation of clinical cases by students.
- 3. Practice sessions (22,5h):** Composed of a series of activities that combine individual work and teamwork. They will develop on-line. Exercises and work done will be evaluated and there will be a theoretical and practical test at the end of each section. Attendance at practices is mandatory. The student will make actual patient records, study models and cephalometric. a diagnostic and therapeutic simulation will. orthodontic wires are handled, preparing all the appliances used in clinic.
- 4. Autonomous work and study:** Student work, including information search, job preparation, clinical cases and proposed exercises, study and exam preparation.
- 5. Tutorials:** Devoted to answer questions or provide a specific bibliography of a specific topic in relation to the theoretical and practical contents of the course. Tutorials will be held on-site or telematic via email.

4.3. Syllabus

This course will address the following topics:

Theory

Section I: Review in Orthodontics diagnostic.

1. Diagnostic Procedures and treatment plan.

Section II: General principles of treatment.

2. Orthodontic treatment: timing.

Section III: Intra-orally orthodontic appliances.

3. Removable Plates
4. Functional Devices
 - 4.1. Bionator.
 - 4.2. Twin block, Frankel, Bimler.
 - 4.3. Herbst, motion appliance.

Section IV: Intraoral fixed appliances.

5. Generalities.
 - 5.1. Multibrackets.
 - 5.2. Auxiliary devices on fixed bands.
 - 5.3. Expansion devices.

Section V: Extraoral fixed appliances.

6. Extraoral traction on class II malocclusion.
7. Extraoral traction on class III malocclusion.

Section VI: Extractions in orthodontic treatment.

8. Therapeutic extractions in orthodontic treatment.
9. Serial extraction in orthodontic treatment.

Section VII: Treatment of malocclusions.

10. Transverse syndromes.
11. Sagittal syndromes.
 - 11.1. Class I.
 - 11.2. Class II.
 - 11.3. Class III.
12. Vertical syndromes.
 - 12.1 Opon bite.
 - 12.2 Deep bite.

Section VIII: Interdisciplinary treatments.

13. Orthodontic and orthognatic surgery.
14. Interdisciplinary treatments: adult patient.

Section IX: Relapse and retention.

15. Retention in orthodontics.

Section X: Esthetic orthodontic.

16. Plastic and lingual orthodontics.

Practice

Section I: Diagnosis.

- Orthopantomography in orthodontics.
- Steiner and Ricketts Cephalometry.
- Photographic records in orthodontics.

Section II: Elaboration of orthodontic devices.

- Lingual arch.
- Transpalatal arch.
- Hawley retainer.

4.4. Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates 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

To consult the bibliography and recommended resources, you must access the *Recommended Bibliography* link.