COURSE DESCRIPTION

SUBJECT: ORTHODONTICS II
YEAR: 3RD SEMESTER: 2ND
DEGREE: DENTISTRY
MODALITY: ATTENDANCE IS REQUIRED
COURSE 2019/2020
FACULTY OF MEDICINE
1. IDENTIFICATION OF THE SUBJECT

1.- SUBJECT:

Name: ORTHODONTICS II  
Code: b329  
Course(s) that is taught: Third year  
Semester(s) that is taught: 2nd  
Type: MANDATORY  
ECTS: 6  
Hours ECTS: (30)  
Language: ENGLISH  
Modality: Classroom  
Degree: DENTISTRY  
School where the mentioned degree is taught: Medicine

2.- SUBJECT ORGANIZATION:

Department: DENTISTRY  
Area of knowledge: STOMATOLOGY

2. FACULTY MEMBERS

1.- PROFESSORS IDENTIFICATION:

Responsible of the Subject  
CONTACT INFORMATION  
Name: Feijóo García, Gonzalo  
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Professor  
CONTACT INFORMATION  
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Professor  
CONTACT INFORMATION  
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Telephone number (ext): 91 372 47 00 Ext. 15206  
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Office: Montepríncipe. Despacho Odontología D 204
2. TUTORIAL ACTION:

For all the possible enquiries regarding the subject, students can contact all teachers via e-mail, telephone and at their respective offices in the tutorial hours, which will be available through the student website.

3. DESCRIPTION OF THE SUBJECT

To diagnose malpositions and/or dental malocclusions and other anatomical or functional disorders, and to know which are their orthodontic, orthopedic or surgical possible corrections, either in the child or the adult patient.

4. COMPETENCES

1. COMPETENCES:

<table>
<thead>
<tr>
<th>Code</th>
<th>Basic and General Competences</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG 20-20</td>
<td>To obtain and develop a medical record that contains all the relevant information.</td>
</tr>
<tr>
<td>Code</td>
<td>Specific Competences</td>
</tr>
<tr>
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</tr>
<tr>
<td>CE 34</td>
<td>Perform basic treatments of the oral and dental pathology in patients of all ages. The therapeutic procedures should be based on the concept of minimal invasion and on a global and integrated approach to oral-dental treatment.</td>
</tr>
<tr>
<td>CE 35.1</td>
<td>Diagnose, plan and perform, in general, a multidisciplinary, sequential and integrated treatment of limited complexity in patients of all ages and conditions.</td>
</tr>
<tr>
<td>CE 35.3</td>
<td>Specifically, the dentist must be competent in establishing a diagnosis, a prognosis and the development of adequate therapeutic planning. Particularly in orofacial pain, temporomandibular disorders, bruxism and other parafunctional habits; dental and periapical pathology; oral trauma; Periodontal pathology and peri-implant tissues; bone pathology of the jaws, buccal soft tissues and attached glands; partial or total edentation states.</td>
</tr>
<tr>
<td>CE 35.4</td>
<td>Specifically, the dentist must be competent in the planning of the rehabilitation treatment using dento and mucosal prostheses, or through dental implants, malpositions and/or dental malocclusions and other anatomical or functional alterations of the face or the stomatognathic system and their possible orthodontic corrections, orthopedic or surgical.</td>
</tr>
<tr>
<td>CE 36.1</td>
<td>For the establishment of such diagnosis and treatment plan, the dentist must perform and interpret radiographs and other procedures based on the image, relevant in dental practice.</td>
</tr>
<tr>
<td>CE 36.2</td>
<td>For the establishment of such diagnosis and treatment plan the dentist must perform: Diagnostic models, assembly in articulator and take interocclusal records.</td>
</tr>
<tr>
<td>CE 36.3</td>
<td>For the establishment of such diagnosis and treatment plan, the dentist must detect and determine the aesthetic requirements of the patient and the possibilities of fulfilling his concerns.</td>
</tr>
<tr>
<td>CE 36.5</td>
<td>For the establishment of such diagnosis and treatment plan, the dentist must assess the motor and sensory functions of mouth, maxillas, etc.</td>
</tr>
<tr>
<td>CE 37.5</td>
<td>For the establishment of such diagnosis and treatment plan the dentist must identify and address any dental emergency</td>
</tr>
<tr>
<td>CE 37.15</td>
<td>For the establishment of such diagnosis and treatment plan the dentist must perform conventional aesthetic procedures from a multidisciplinary perspective.</td>
</tr>
<tr>
<td>CE 37.17</td>
<td>For the establishment of such diagnosis and treatment plan, the dentist must prepare the prescriptions of the customized medical devices, dentures and orthodontic appliances and/or dento-facial orthopedics.</td>
</tr>
<tr>
<td>CE 37.18</td>
<td>For the establishment of such diagnosis and treatment plan the dentist must perform nonsurgical treatment of temporomandibular disorders and orofacial pain.</td>
</tr>
<tr>
<td>CE37-19</td>
<td>For the establishment of an appropriate treatment, the dentist must be competent in the performance of children oral treatments, and must know how to recognize their features and peculiarities.</td>
</tr>
<tr>
<td>CE37-20</td>
<td>For the establishment of an appropriate treatment, the dentist must be competent in the identification and correction of harmful oral habits, which can cause or exacerbate dental malocclusions.</td>
</tr>
<tr>
<td>CE37-21</td>
<td>For the establishment of an appropriate treatment, the dentist must be competent in the planning, and should determine the specific features of design, records, prescription and clinical tests. He should also know how to position and clinically adapt fixed or removable space maintainers and interceptive orthodontic techniques, as well as active removable elements aimed to move teeth or solve crossbites.</td>
</tr>
</tbody>
</table>

2.- LEARNING OUTCOMES:
To provide a diagnosis, prognosis and development of an accurate therapeutic strategy with regard to dental malpositions and/or malocclusions and other anatomical and/or functional alterations of the face or stomatognathic system and their possible orthodontic and orthopedic solutions.

To take and interpret X-rays and other image based procedures, which are relevant in orthodontic practice.

To make and assemble diagnostic casts and to take interocclusal records.

To determine and identify the aesthetic requirements of the patient and the possibilities of fulfilling his concerns.

To assess the motor and sensory function of mouth and jaws.

To identify and correct harmful buccal habits that can produce or exacerbate dental malocclusions.

To plan and determine the specific features of design, records, prescription, clinical tests; and to position and clinically adapt fixed or removable space maintainers and interceptive orthodontic techniques, as well as active removable elements aimed to move teeth or solve crossbites.

### 5. TRAINING ACTIVITIES

#### 1.- STUDENTS WORK DISTRIBUTION:

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Classroom Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5516</td>
<td>Theoretical lessons</td>
<td>45</td>
</tr>
<tr>
<td>5516</td>
<td>Practical classes</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Overall Classroom Hours</td>
<td>102</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Non Presentional Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5516</td>
<td>Students individual work</td>
<td>78</td>
</tr>
</tbody>
</table>

#### 2.- TRAINING ACTIVITIES DESCRIPTION:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER CLASS</td>
<td>The professor will present certain introductory aspects of the different theoretical sections of the subject, as well as their integration according to the syllabus of the subject. Learning support material will also be used (either delivered in the classroom or shared throughout students website).</td>
</tr>
</tbody>
</table>
### THEORETICAL CLASSES
Theoretical classes of each and every one of the issues that appear in the program of the subject will be taught.

### SEMINARS
Seminars to enhance theoretical contents through different assignments that the student must present subsequently, will be performed.

### ACADEMIC TUTORIALS
All theoretical and practical questions that may arise along the course will be resolved.

### PRACTICES
Practical classes will take place in the laboratory according to schedule, in 3 hours session per practice. Once the corresponding practices shift is allocated, **any kind of change will be allowed**. Required work will always be realized under the teacher in charge supervision, additionally, the obtained results will be analyzed and discussed, recording them individually in the laboratory notebook, which should be submitted exclusively to the corresponding teacher, on the indicated date and place.

### 6. METHODS AND EVALUATION CRITERIA

#### 1.- CLASS ATTENDANCE:
- In order to be eligible for continuous evaluation, it is necessary to assist to at least the 75% of the theoretical classes (attendance controls will be carried out). As the student can miss the 25% of the total classes, justification letters won’t be allowed.
- **Seminars** attendance and participation is 100% mandatory to pass the subject, justification letters won’t be allowed.
- Attendance to all **practical classes** is 100% mandatory to pass the subject, justification letters won’t be allowed.

#### 2.- METHODS AND EVALUATION CRITERIA:

##### ORDINARY CALL (Continuous Evaluation)

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME</th>
<th>IMPORTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5518</td>
<td>Written evaluation (objective tests; tests data)</td>
<td>60</td>
</tr>
<tr>
<td>5518</td>
<td>Practical assessment</td>
<td>30</td>
</tr>
<tr>
<td>5518</td>
<td>Individual and/or group works</td>
<td>10</td>
</tr>
</tbody>
</table>

##### EXTRAORDINARY CALL

<table>
<thead>
<tr>
<th>CODE</th>
<th>NAME</th>
<th>IMPORTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5518</td>
<td>Written evaluation (objective tests; tests data)</td>
<td>60</td>
</tr>
<tr>
<td>5518</td>
<td>Practical assessment</td>
<td>40</td>
</tr>
</tbody>
</table>

#### 3.- DESCRIPTION OF THE EVALUATION SYSTEMS:

<table>
<thead>
<tr>
<th>EVALUATION SYSTEMS</th>
<th>DEFINITION</th>
</tr>
</thead>
</table>


### Practical Continuous Evaluation
Reviewed exercices of each practice will be done. The continuous evaluation of those exercices will constitute the 80% of the practices final mark. Moreover, a final practical exam will be taken at the end of the semester, representing the 20% of the practices final mark. To pass the practical continuous evaluation, the mark of each practice as well as the mark of the practical final evaluation must be equal or greater than 5 out of 10.

### Theoretical Ordinary Call
Theoretical knowledge of the students will be assessed through written exercices, reasoning questions and/or individual work. The student that did not assist to at least the 75% of the theoretical classes must take an additional test in the ordinary call. The mark must be equal or greater than 5 out of 10 to pass this call.

### Practical Ordinary Call
Those students who have not passed the practical continuous evaluation will have to take a test. To pass this call, the obtained mark must be equal or greater than 5 out of 10.

### Extraordinary Call
Students who do not pass the subject in the ordinary call should take the final exam in the extraordinary call, which will cover all the subject matter. In the extraordinary call qualification, the established percentages for the continuous evaluation won’t be applied, being applied the grade obtained in the extraordinary exam, taking into account that the mark of practices should be at least 5 out of 10.

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### 7. Syllabus of the Subject

#### 1.- Syllabus of the Subject:

**Theoretical Programme:**

- **Lesson 1. Cephalic Topography.** Main points, planes, angles and indexes relating to the craniofacial anatomy.
- **Lesson 8. Posturology.**
- **Lesson 9. Interception and Prevention in Orthodontics.**
- **Lesson 10. Diagnostic Integration and Treatment Plan.** Integration of the
clinical data obtained. Development of a problems list.

SECTION II: GENERAL PRINCIPLES OF THERAPEUTICS.

SECTION III: FUNCTIONAL APPLIANCES.

SECTION IV: EXTRAORAL DEVICES.

SECTION V: DENTAL EXTRACTIONS IN ORTHODONTICS.

PRACTICES PROGRAMME:
- Medical history and dental examination.
- Casts study.
- Panoramic x-ray study.
- Teleradiography anatomical study.
- Cephalometric tracing. Points, planes, lines and axes.
- Steiner's cephalometric analysis.
- Rickett’s cephalometric análisis.
- Cephalometric diagnosis.
8. RECOMMENDED LITERATURE

1.- MAIN LITERATURE:


2.- COMPLEMENTARY LITERATURE:

- GREGORET, J: Ortodoncia y Cirugía Ortognática. ED Amolca (2014)

3.- USEFUL WEB RESOURCES:


9. BEHAVIOR RULES

1.- RULES:

Academic Integrity faults (absence of sources citation, class work plagiarism or a misuse/prohibited use of information during the exams), as well as signing the attendance sheet for a partner who is not in class, will entail the loss of continuous evaluation, without prejudice to the punitive actions which are established.

The entrance to the laboratory won’t be allowed to students who are not properly equipped.

The use of electronic devices are not allowed during lessons, both theoretical and practical.

Likewise, the use of documentation provided by the faculties through the student website (presentations, questions, exercices, seminars, practice notebooks, etc) is exclusively restricted for the preparation of the subject. Teachers reserve their rights to make use of the measures contained in the current legislation on Intellectual Property, especially on those cases where a use and/or unauthorized disclosure of such material is detected.