370712 - CONTROL - Myopia Control and Orthokeratology

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry
Academic year: 2019
Degree: MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2012). (Teaching unit Optional)
ECTS credits: 3  
Teaching languages: Spanish

Teaching staff
Coordinator: Pacheco Cutillas, Mireia (http://futur.upc.edu/MireiaPachecoCutillas)
Pérez Corral, Juan Enrique

Opening hours
Timetable: Private consultation sessions will be arranged through prior demand by Atena

Prior skills
All students are Graduates in Optometry and, therefore, they have the knowledge of refractive error in general and myopia, in particular, and in contact lenses fitting attained during the degree courses.

Degree competences to which the subject contributes

Transversal:
1. ENTREPRENEURSHIP AND INNOVATION: Being aware of and understanding how companies are organised and the principles that govern their activity, and being able to understand employment regulations and the relationships between planning, industrial and commercial strategies, quality and profit.
2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.
3. FOREIGN LANGUAGE: Achieving a level of spoken and written proficiency in a foreign language, preferably English, that meets the needs of the profession and the labour market.
4. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.
5. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

Teaching methodology
MD1.- Master Classes
MD2.- Autonomous work with tutor support, when required, using ICT tools
MD3.- Clinical practices in the lab with orthokeratology lenses
MD4.- Discussion of Clinical Cases in Atenea

Learning objectives of the subject
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### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours large group:</th>
<th>Hours medium group:</th>
<th>Hours small group:</th>
<th>Guided activities:</th>
<th>Self study:</th>
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<tbody>
<tr>
<td><strong>Total learning time:</strong></td>
<td>75h</td>
<td>0h</td>
<td>8h 06m</td>
<td>15h 54m</td>
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<td>0h</td>
<td>0.00%</td>
<td>10.80%</td>
<td>21.20%</td>
<td>68.00%</td>
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**Total learning time:** 75h

**Hours large group:** 0h

**Hours medium group:** 8h 06m

**Hours small group:** 15h 54m

**Guided activities:** 0h

**Self study:** 51h
An updated description of the existing theories on how and why the modification of corneal morphology occurs during treatment is made, from the point of view of the forces involved and the physiological changes that happen during orthokeratology.
### Qualification system

**EV1**: Written test on theoretical and practical knowledge 30%
**EV3**: Realization and exhibition of an individual work 30%
**EV3**: Participation in suggested activities in Atenea related with the subject 20%
**EV4**: Participation in the suggested topics in the Forum of Atenea 20%
Bibliography

Basic:


Walline, J.J. [et al.]. "Interventions to slow progression of myopia in children". Cochrane database of systematic reviews. 2011 (12).

