370705 - PATO - Ocular Pathology and Treatment

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry
Academic year: 2018
Degree: MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2012). (Teaching unit Compulsory)
ECTS credits: 3
Teaching languages: Catalan, Spanish, English

Degree competences to which the subject contributes

Transversal:
1. 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.

Teaching methodology

- 

Learning objectives of the subject

Train students to carry out tasks of the optometrist at the health system. Place the student in the context of the task at the optometrist care. Get assistance resources in the public health system in the field of primary care and specialized care circuits.
Knowledge of the principles and fundamentals of the complementary tests used in clinical practice. To know the patterns of normality results in tests conducted by the optometrist. Relate these patterns with the anatomical structures of the eye, visual pathways and its annexes.
To know the epidemiology of most prevalent ocular diseases, its risk factors and diagnostic methods. Get systemic and neurological pathologies that directly or indirectly affect the visual system.
Understand the nature of the pathological processes studied by the tests at optometrist care. To place complementary tests in the diagnostic process. Deeper understanding and interpretation of the exploratory techniques of eye disease. Know the indications and limitations.
To Distinguish signs and symptoms that indicate a serious eye disease that require specialized treatment. To Distinguish signs and symptoms that indicate a serious eye disease.
Get medical treatments, physical and surgical ophthalmology currently used in the treatment of ocular diseases. Acquiring a global vision of the eye surgical techniques used today and the new advances in this field.
# Study load

**Total learning time:** 72h

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours medium group:</td>
<td>8h 06m</td>
<td>11.25%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>15h 54m</td>
<td>22.08%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>48h</td>
<td>66.67%</td>
</tr>
</tbody>
</table>
### Content

<table>
<thead>
<tr>
<th>Title English</th>
<th>Learning Time</th>
<th>Theory Classes</th>
<th>Self Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorescein angiography principles and patterns</td>
<td><strong>Learning time:</strong> 2h</td>
<td>Theory classes: 2h</td>
<td></td>
</tr>
<tr>
<td>Interpritation of pathology on OCT</td>
<td><strong>Learning time:</strong> 4h</td>
<td>Theory classes: 4h, Self study: 2h</td>
<td></td>
</tr>
<tr>
<td>Retinal diseases</td>
<td><strong>Learning time:</strong> 8h</td>
<td>Theory classes: 4h, Self study: 4h</td>
<td></td>
</tr>
<tr>
<td>Neuroophthalmology</td>
<td><strong>Learning time:</strong> 7h</td>
<td>Theory classes: 2h, Guided activities: 1h, Self study: 4h</td>
<td></td>
</tr>
</tbody>
</table>

### Description:

- **Fluorescein angiography principles and patterns**
  - To know the pathologic patterns on OCT

- **Interpritation of pathology on OCT**
  - To know the pathologic patterns on OCT

- **Retinal diseases**
  - Learn more frequent retinal disorders and how these disorders affect visual acuity

- **Neuroophthalmology**
  - To know the pathologies of the nervous system and its impact on the visual system.
### Visual field test

**Description:**
Know the principles of the use of computerized perimetry in the field of eye health

**Learning time:** 2h
- Theory classes: 1h
- Self study: 1h

### Glaucoma

**Description:**

**Learning time:** 5h
- Theory classes: 2h
- Guided activities: 1h
- Self study: 2h

### Ophthalmological manifestations of systemic diseases.

**Description:**
Identify and know the repercussions in the visual system of systemic diseases.

**Learning time:** 9h
- Theory classes: 4h
- Guided activities: 1h
- Self study: 4h

### Ocular andexa

**Description:**
Know the main diseases of the eye and its annexes involvement

**Learning time:** 5h
- Theory classes: 2h
- Guided activities: 1h
- Self study: 2h
### Red eye

<table>
<thead>
<tr>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Know differential diagnosis of red eye.</td>
</tr>
</tbody>
</table>

### Learning time:
- Theory classes: 1h
- Guided activities: 1h
- Self study: 1h

### Qualification system

- 

### Bibliography
