Course guide
370018 - MICRO - Microbiology

Unit in charge: Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry.

Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2020). (Compulsory subject).
Academic year: 2022 ECTS Credits: 6.0 Languages: Catalan, Spanish

Coordinating lecturer: Miquel Bellmunt, Nuria
Llorens I Fons, Marta
Others: Clot Silla, Eduardo

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE02. Determine the functions of systems in the human body. Demonstrate knowledge of the principles and foundations of the biological processes involved in the normal functioning of the visual system. Recognise, with macroscopic and microscopic methods, the morphology and structure of the tissues, organs and systems in the human body. Demonstrate knowledge of and describe, macroscopically and microscopically, the structures that make up the visual system and ocular adnexa. Demonstrate knowledge of the structure of the cell, embryonic development and organogenesis. Describe the development of the visual system. Demonstrate knowledge of the microorganisms involved in visual system disorders. Demonstrate knowledge of the properties and functions of the various parts that make up the visual system.
CE07. (ENG) The ability to understand and manage basic laboratory materials and techniques.

General:
CG8. Plan and carry out research projects that contribute to the production of knowledge in the field of optometry and disseminate this scientific knowledge via the typical communication channels.
CG13. Demonstrate and interpret methods for critical analysis and theory development and apply them to the field of optometry.

Transversal:
CT7. Foreign language. Demonstrate knowledge of a foreign language, preferably English, at an oral and written level that is consistent with graduates’ future needs.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

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<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Self study</td>
<td>90.0</td>
<td>58.71</td>
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**Total learning time:** 153.3 h

**CONTENTS**

**title english**

**Description:**
content english

**Full-or-part-time:** 10h
Practical classes: 2h
Laboratory classes: 2h
Self study: 6h

**title english**

**Description:**
content english

**Full-or-part-time:** 47h 30m
Practical classes: 15h
Laboratory classes: 4h
Self study: 28h 30m

**title english**

**Description:**
content english

**Full-or-part-time:** 15h
Practical classes: 4h
Laboratory classes: 2h
Self study: 9h

**title english**

**Description:**
content english

**Full-or-part-time:** 64h
Practical classes: 20h
Laboratory classes: 7h
Self study: 37h
**title english**

**Description:**
content english

**Full-or-part-time:** 13h 30m  
Practical classes: 4h  
Self study: 9h 30m

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**ACTIVITIES**

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<th>name english</th>
<th><strong>Full-or-part-time:</strong> 20h</th>
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<td>Self study: 12h</td>
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<td>Self study: 10h 30m</td>
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<th><strong>Full-or-part-time:</strong> 3h</th>
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<th><strong>Full-or-part-time:</strong> 1h</th>
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<tbody>
<tr>
<td></td>
<td>Practical classes: 1h</td>
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</tbody>
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**GRADING SYSTEM**
BIBLIOGRAPHY

Basic:

Complementary:
- Gardner, Joan F; Peel, Margaret M. Introduction to sterilization, disinfection and infection control. 2nd ed. Melbourne [etc.]: Churchill Livingstone, cop. 1991. ISBN 0443042861.

RESOURCES

Audiovisual material:
- Nom recurs. Resource