Course guide
370030 - OGERIAT - Geriatric Optometry and Low Vision

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: 3.0 Languages: Spanish

LECTURER

Coordinating lecturer: Eulalia Sánchez Herrero (https://futur.upc.edu/EulaliaSanchezHerrero)
Others: Auge Serra, Montse (https://futur.upc.edu/MontserratAugeSerra)
Díaz, Anna

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE20. Measure, interpret and treat refractive errors. Describe the sensory and oculomotor mechanisms of binocular vision. Identify the principles of and measure, interpret and treat accommodative and binocular vision anomalies. Demonstrate skills in communication, recording data and writing clinical histories. Demonstrate skills in the interpretation and clinical judgement of results of vision tests, to establish the most suitable diagnosis and treatment. Demonstrate skills in instrumental assessment tests of visual function and eye health. Carry out a complete medical history. Identify, apply and interpret instrumental tests relating to visual health problems. Demonstrate the clinical skills required for the examination and treatment of patients. Examine, diagnose and treat visual anomalies with an emphasis on differential diagnosis. Describe the nature and organisation of types of clinical care. Describe the protocols that are applied to patients.
CE22. (ENG) Conèxier i aplicar ajudes òptiques i no òptiques per a la baixa visió.
CE24. Identify and apply vision screening techniques to various populations.

Generical:
CG1. Demonstrate knowledge of, design and apply prevention and maintenance programmes relating to the population’s visual health.
CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.
CG3. Advise and guide patients and relatives during the entire treatment.
CG5. Give opinions and produce reports and expert reports when necessary.
CG6. Assess and incorporate the technological improvements necessary to properly carry out professional activities.

CG7. (ENG) Ser capaç de dur a terme activitats de planificació i gestió en un servei o una petita empresa en el camp de l’òptica-optometria

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.
CG9. Expand and update one’s professional abilities through continuing education.
CG11. Locate new information and interpret it in context.
CG14. Demonstrate knowledge, skills and abilities in patient healthcare.
CG15. (ENG) Demostrar capacitats per actuar com a agent d'atenció primària visual.
Transversal:
CT2. 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

At the end of the course of geriatric optometry and low vision, the student will have obtained the following objectives:
1. knowledge of the modifications linked to aging of the perceptual processes.
2. Competence to identify and manage situations requiring interprofessional referral/collaboration.
3. Competence to evaluate and treat patients affected by low vision.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Self study</td>
<td>30,0</td>
<td>47.62</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>20,0</td>
<td>31.75</td>
</tr>
<tr>
<td>Hours small group</td>
<td>10,0</td>
<td>15.87</td>
</tr>
<tr>
<td>Guided activities</td>
<td>3,0</td>
<td>4.76</td>
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</tbody>
</table>

Total learning time: 63 h

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<tr>
<td>Description:</td>
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<td>content english</td>
</tr>
<tr>
<td>Related competencies :</td>
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<tr>
<td>CG11. Locate new information and interpret it in context.</td>
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<td>CT2. 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.</td>
</tr>
</tbody>
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Full-or-part-time: 7h
Theory classes: 2h
Self study : 5h
### Full-or-part-time: 6h
- Theory classes: 2h
- Self study: 4h

### Full-or-part-time: 19h
- Theory classes: 5h
- Self study: 14h
Related competencies:

CG7. (ENG) Ser capaç de dur a terme activitats de planificació i gestió en un servei o una petita empresa en el camp de l’òptica-optometria

CG11. Locate new information and interpret it in context.

CG5. Give opinions and produce reports and expert reports when necessary.

CG3. Advise and guide patients and relatives during the entire treatment.

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

CE24. Identify and apply vision screening techniques to various populations.

Full-or-part-time: 4h
Theory classes: 1h
Self study : 3h
ACTIVITIES

Related competencies:
CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.
CG5. Give opinions and produce reports and expert reports when necessary.
CE20. Measure, interpret and treat refractive errors. Describe the sensory and oculomotor mechanisms of binocular vision. Identify the principles of and measure, interpret and treat accommodative and binocular vision anomalies. Demonstrate skills in communication, recording data and writing clinical histories. Demonstrate skills in the interpretation and clinical judgement of results of vision tests, to establish the most suitable diagnosis and treatment. Demonstrate skills in instrumental assessment tests of visual function and eye health. Carry out a complete medical history. Identify, apply and interpret instrumental tests relating to visual health problems. Demonstrate the clinical skills required for the examination and treatment of patients. Examine, diagnose and treat visual anomalies with an emphasis on differential diagnosis. Describe the nature and organisation of types of clinical care. Describe the protocols that are applied to patients.

Full-or-part-time: 1h 30m
Laboratory classes: 1h 30m
Related competencies:

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

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**Full-or-part-time:** 1h 30m
Laboratory classes: 1h 30m

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CE22. (ENG) Conèixer i aplicar ajudes òptiques i no òptiques per a la baixa visió.

**Full-or-part-time:** 1h 30m
Practical classes: 1h 30m
Related competencies:

CG5. Give opinions and produce reports and expert reports when necessary.
CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.
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Examine, diagnose and treat visual anomalies with an emphasis on differential diagnosis. Describe the nature and organisation of types of clinical care. Describe the protocols that are applied to patients.

Full-or-part-time: 1h 30m
Laboratory classes: 1h 30m

(name english)

Related competencies:

CG5. Give opinions and produce reports and expert reports when necessary.
CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.
CG3. Advise and guide patients and relatives during the entire treatment.
CG11. Locate new information and interpret it in context.
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CT2. 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.

Full-or-part-time: 1h 30m
Theory classes: 1h 30m
name english

**Related competencies:**

CG5. Give opinions and produce reports and expert reports when necessary.

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

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CE22. (ENG) Conèixer i aplicar ajudes òptiques i no òptiques per a la baixa visió.

**Full-or-part-time:** 2h
Practical classes: 2h

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**Related competencies:**

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

CG5. Give opinions and produce reports and expert reports when necessary.

CE20. Measure, interpret and treat refractive errors. Describe the sensory and oculomotor mechanisms of binocular vision. Identify the principles of and measure, interpret and treat accommodative and binocular vision anomalies. Demonstrate skills in communication, recording data and writing clinical histories. Demonstrate skills in the interpretation and clinical judgement of results of vision tests, to establish the most suitable diagnosis and treatment. Demonstrate skills in instrumental assessment tests of visual function and eye health. Carry out a complete medical history. Identify, apply and interpret instrumental tests relating to visual health problems. Demonstrate the clinical skills required for the examination and treatment of patients.

Examine, diagnose and treat visual anomalies with an emphasis on differential diagnosis. Describe the nature and organisation of types of clinical care. Describe the protocols that are applied to patients.

CE22. (ENG) Conèixer i aplicar ajudes òptiques i no òptiques per a la baixa visió.

**Full-or-part-time:** 8h 39m
Practical classes: 2h 30m
Self study: 6h 09m

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**GRADING SYSTEM**
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BIBLIOGRAPHY

Basic:

Complementary: