

## 370542 - DEFVSIE - Severe Visual Impairment: Specific Instrumentation and Its Clinical Application

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry

Teaching unit: 731 - OO - Department of Optics and Optometry

Academic year: 2019

Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2009). (Teaching unit Optional)

ECTS credits: 3 Teaching languages: Catalan, Spanish

### Teaching staff

Coordinator: Sánchez Herrero, Eulalia (<http://futur.upc.edu/EulaliaSanchezHerrero>)

Others: Sánchez Herrero, Eulalia (<http://futur.upc.edu/EulaliaSanchezHerrero>)  
Tomás Corominas, Núria (<http://futur.upc.edu/NuriaTomasCorominas>)

### Degree competences to which the subject contributes

#### Specific:

- 1.1.2. Knowing how to do clinical examinations and interpret the results
- 2.1.6. Prioritize treatment options.
- 3c.1.4. Identify the design and features of different specific aid for low vision.
- 3c.2.4. Determine, according to the visual limitations, optical aids for each case.
- 3c.0.4. To understand the optical characteristics and the use of optical and no optical aids in low vision.
- 2.3.5. Interpret the registers obtained with different techniques. Determine the status of ocular structures.
- 2. Examine the visual system to value his state and functionality
  - 2.0.1. Make a proper anamnesis and initial analysis of the state of the patient
  - 2.2.4. To interpret the results and determine if necessary a treatment.
    - 2.2.1. Applying an specific anamnesis to extract relevant information.
  - 3a.4.3. Transmit the user the necessary information for make a good use of the compensator system (prescription glasses, protective glasses or optical aids)
  - 3c.2.2. Select the appropriate optical aid according to the patient's visual limitations.
  - 3c.3.4. Value and report on the possibilities and limitations of specific visual aids for low vision.
- 1.0.4. Managing patient care

#### Generical:

- T4.2.2. Value and incorporate technological necessary improvements for the proper development of the profession
- T1.1.1. - Know the influence of the visual health in the education and the global well-being (and the development)
  - Know the influence of the visual health for the development
  - Know the fundamental values of the bioethics
  - Know the model of sustainable development

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- Know the environmental and social impacts of the technology

T2.1.2. Develop empathy with people

T3.0.1. Being able to participate in multidisciplinary working groups, multicultural and multilingual

### Learning objectives of the subject

### Study load

Total learning time: 75h	Hours medium group:	21h	28.00%
	Hours small group:	9h	12.00%
	Self study:	45h	60.00%

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### Content

<p>title english</p>	<p>Learning time: 4h Theory classes: 1h Self study : 3h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 9h 40m Theory classes: 1h Practical classes: 2h Self study : 6h 40m</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 34h 30m Theory classes: 10h Practical classes: 4h Self study : 20h 30m</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 11h 50m Theory classes: 1h 30m Practical classes: 2h Self study : 8h 20m</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 12h Theory classes: 3h Self study : 9h</p>
<p>Description: content english</p>	

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## Bibliography

### Basic:

Faye, E.E. Clinical low vision. 2nd ed. Boston [etc.]: Little Brown & Co, 1984. ISBN 0316276219.

Vila, J.M. [et al.]. Apuntes sobre rehabilitación visual. Madrid: ONCE, 1994. ISBN 8487277454.

Freeman, P.B.; Jose, R.T. The art and practice of low vision. 2nd ed. Boston [etc.]: Butterworth-Heinemann, 1997. ISBN 0750696850.