Course guide
370050 - ACCESSIB - Visual Accessibility

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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). (Optional subject).

Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Professorat responsable: Núria Tomas Corominas, TU (http://futur.upc.edu/NuriaTomasCorominas

Others: Professorat responsable: Núria Tomas Corominas, TU (http://futur.upc.edu/NuriaTomasCorominas
Luis Pérez Mañá

Pérez Mañà, Luis
Pérez Mañà, Luis

PRIOR SKILLS

Have the knowledge of a 3rd year optometry GOO student.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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.

Basic:
CB3-OPT. (ENG) Que los estudiantes tengan la capacidad de reunir e interpretar datos relevantes (normalmente dentro de su área de estudio) para emitir juicios que incluyan una reflexión sobre temas relevantes de índole social, científica o ética
CB4-OPT. (ENG) Que los estudiantes puedan transmitir información, ideas, problemas y soluciones a un público tanto especializado como no especializado

TEACHING METHODOLOGY

MD1 - Participatory expository class of theoretical and practical content
MD2 - Active methodologies in the classroom (project-based learning (PBL), case study, role-playing, cooperative learning, ...)
MD3 - Practical solving class, with the participation of students, of practical cases and / or exercises related to the contents of the subject
MD4 - Laboratory practices

LEARNING OBJECTIVES OF THE SUBJECT

Objective: to provide the basics of visual accessibility to undergraduate students and contribute to creating awareness of the necessary equality of opportunities whatever a person's visual condition

STUDY LOAD

Type	Hours	Percentage
Self study	45,0	60.00
Hours small group	7,5	10.00
Hours medium group	22,5	30.00

Total learning time: 75 h

CONTENTS

1.-Introduction: What is accessibility?

Description:
content english

Specific objectives:
Introduce the concept of accessibility by emphasizing visual accessibility in all aspects of daily life

Related activities:
Theory classes

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

2. What is low vision?

Description:
Introduction to the concept of low vision

Specific objectives:
See how low vision affects the actions of daily or professional life

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

3. Awareness towards low vision

Description:
Awareness towards situations that can suffer patients with low vision in non-adapted environments

Specific objectives:
Show situations in which a person with low vision can find themselves Foster empathy towards people who suffer from low vision.

Related activities:
Theory and practical classes. In the practicals, low vision situations will be simulated so that the students experience them in the first person to foster empathy.

Full-or-part-time: 9h
Practical classes: 2h
Laboratory classes: 2h
Self study : 5h

4. Universal design

Description:
Introduction to universal design

Specific objectives:
Introduction to the concept of universal design and its application to visual accessibility

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

5. Current legislation and regulations

Description:
Introduction to current legislation and regulations regarding visual accessibility

Specific objectives:
To know the legislation in force regarding visual accessibility and its application in public environments

Related activities:
Theory classes and practical application in the works

Full-or-part-time: 12h
Practical classes: 2h
Self study : 10h

6. Accessibility in the physical space

Description:
Introduction to the conditions that a physical space must have in order to be visually accessible

Specific objectives:
To know the conditions for a person with low vision to be able to stand, walk and orient themselves in a physical space safely and independently.

Related activities:
Theory classes, practices, and activity based on cases

Full-or-part-time: 17h
Practical classes: 4h
Laboratory classes: 3h
Self study : 10h

7. Accessibility in the digital environment

Description:
Introduction to the conditions that a digital environment must have in order to be visually accessible

Specific objectives:
Know the conditions for a person with low vision to be able to stand, wander and orient themselves in a digital environment safely and autonomously.

Related activities:
Theory classes, practices, and activity based on cases

Full-or-part-time: 17h
Theory classes: 10h
Practical classes: 4h
Laboratory classes: 3h

8. Accessibility in documentation

Description:
Introduction to the conditions that documents and written material must have in order to be visually accessible

Specific objectives:
Know the conditions for a person with low vision to be able to, interpret printed documentation.

Related activities:
Theory classes, practices, and activity based on cases

Full-or-part-time: 14h
Practical classes: 2h
Self study : 12h

ACTIVITIES

LABORATORY PRACTICES

Description:
Simulation, by means of simulation glasses, of the visual condition of a patient with low visual acuity or reduced visual field. Simulation of situations in which a patient with low vision can be found, both in a physical environment and in a virtual environment.

Specific objectives:
Raise awareness of the difficulties faced by patients with low vision
Analysis of situations in the physical and virtual environment
Proposal of solutions to have accessible spaces

Material:
Low visual acuity simulation glasses
Reduced visual field simulation glasses

Delivery:
Activity reports

Full-or-part-time: 8h
Laboratory classes: 8h

name english

Full-or-part-time: 10h
Practical classes: 10h

name english

Full-or-part-time: 12h
Practical classes: 12h

GRADING SYSTEM

Practice reports (20%)
Problem-based activities: Activity 1 (20%) Activity 2 (20%)
Written exam (40%)
Reassessment Written exam (100%)

EXAMINATION RULES.

Attendance at 100% of practical sessions
Attendance at 80% of classroom activities