



Course guide

370051 - VISIOESP - Sportsvision: Eye-Tracking Application

Last modified: 28/06/2023

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: 2023 **ECTS Credits:** 3.0 **Languages:** Catalan, English

LECTURER

Coordinating lecturer:

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:

CT3. Teamwork. To be able to work as a member of a multidisciplinary team, either as a base member or undertaking managerial decisions aiming at developing projects from a practical and responsible standpoint, adopting commitments given the available resources

CT4. (ENG) Teamwork. The ability to work as a member of an interdisciplinary team, as just another member or in a leadership role, who can contribute to developing projects pragmatically and with a sense of responsibility and make commitments that take into account the resources that are available.

CT5. Efficient use of information resources. To manage data and technical and scientific information acquisition, organization, analysis and visualization and to provide a critical appraisal of the results of this management

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

Basic:

CB2-OPT. (ENG) Que los estudiantes sepan aplicar sus conocimientos a su trabajo o vocación de una forma profesional y oseen las competencias que suelen demostrarse por medio de la elaboración y defensa de argumentos y la resolución de problemas dentro de su área de estudio

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

LEARNING OBJECTIVES OF THE SUBJECT

1. Provide the student with the techniques and strategies to evaluate the visual skills involved in the different sports disciplines, find the best system of optical neutralization and eye protection, and design a specific and integrated visual training program.
2. Provide the student with an in-depth understanding of the different eye movements and their importance in sport, as well as the techniques, strategies and tools for their assessment and training in sporting areas.



STUDY LOAD

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

Total learning time: 75 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 10h

Theory classes: 4h

Practical classes: 2h

Self study : 4h

title english

Description:

content english

Full-or-part-time: 6h

Theory classes: 2h

Self study : 4h

title english

Description:

content english

Full-or-part-time: 8h

Theory classes: 2h

Practical classes: 2h

Self study : 4h

title english

Description:

content english

Full-or-part-time: 28h

Guided activities: 3h

Self study : 25h



ACTIVITIES

name english

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

name english

Full-or-part-time: 5h
Laboratory classes: 5h

name english

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

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Benjamin T Carter, Steven G Luke. "Best practices in eye tracking research". International journal of psychophysiology [Recurr electrònic].
- L. Gregory Appelbaum & Graham Erickson. "Sports vision training: A review of the state-of-the art in digital training technique". International Review of Sport and Exercise Psychology [on line]. DOI: 10.1080/1750984X.2016.1266376 Available on: <https://doi.org/10.1080/1750984X.2016.1266376>.
- Rodríguez Salvador, V; Gallego Lago, I & Zarco Villarosa, D . Visión y deporte. Barcelona: GLOSA, 2010. ISBN 978-84-7429-493-4 .

Complementary:

- Erickson, G . Sports Vision. Vision Care for the Enhancement of Sports Performance. . Elsevier, 2021. ISBN 978-0-323-75543-6.