

370552 - CRIBRATGES - Screening and Treatment of Visual Data

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 749 - MAT - Department of Mathematics
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: 6 Teaching languages: Catalan

Degree competences to which the subject contributes

Specific:

- 0.6. Apply geometry, calculations and statistics for modeling and solving problems related to optics and optometry.
- 0.8. Being able to take, treat, represent and interpret experimental data. "Use basic laboratory equipment and techniques"
- 1.2.2. Establish protocols, analyze results and elaborate the corresponding reports
- 1.3.2. Designing protocols for prevention of visual health
- 1.1.3. Detecting the need to derive the patient with the corresponding report to the appropriate professional and be able to collaborate keeping the follow-up of the patient
- 1.1.4. Acquire skills in patient care
- 3a.2.1. Recognize the characteristics of different population groups according to the age, or demands or visual needs.

Generical:

- 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
- Know the environmental and social impacts of the technology
- T2.1.1. Extract the main points of a text or any source of information (oral or written)
- T2.1.2. Develop empathy with people
- T2.3.1. Display information orally and in writing of reasonably and coherent.
- T2.3.2. Judgments (ratings) reports and surveys
- T4.1.1. Assessing the acquisition of the course objectives.
- T4.1.3. Encourage methodical work, rigorous, consistent and innovative
- T4.2.3. Working with evidence, methodology and rigour.



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Learning objectives of the subject

Please find it in the catalan version

Study load

Total learning time: 210h	Hours medium group:	18h	8.57%
	Hours small group:	42h	20.00%
	Guided activities:	0h	0.00%
	Self study:	150h	71.43%

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Content

<p>title english</p>	<p>Learning time: 32h Practical classes: 9h Self study : 23h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 30h Practical classes: 18h Self study : 12h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 14h 40m Practical classes: 1h 30m Laboratory classes: 4h Self study : 9h 10m</p>
<p>Description: content english</p>	
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title english	Learning time: 14h 40m Practical classes: 1h 30m Laboratory classes: 4h Self study : 9h 10m
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Description: content english	

Bibliography

Basic:

Peck, R.; Olsen, C.; Devore, J. Introduction to statistics and data analysis. Pacific Grove, CA: Duxbury, 2001. ISBN 0534370926.

Johnson, R.A.; Bhattacharyya, G. K. Statistics: principles and methods. 4th ed. New York: John Wiley & Sons, 2001. ISBN 0471388971.

Prevent Blindness America. Preschool vision screening for healthcare professionals. [Schaumburg, Illinois]: American Academy of Pediatrics, 2005. ISBN 1581101600.

Moreno, F.X. Visió i aprenentatge: bateria per al diagnòstic de la visió a l'escola. Bellaterra: Universitat Autònoma de Barcelona, 2002. ISBN 8449022894.

Pediatric vision screening: an instructional guide. American Academy of Pediatrics, 1999. ISBN 9781581100365.