

370550 - TDVISUALS - Visual Data Processing

Coordinating unit: 370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry
749 - MAT - Department of Mathematics
Academic year: 2019
Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator:
Rallo Capdevila, Miguel (<http://futur.upc.edu/MiguelRalloCapdevila>)
Vila Vidal, Núria (<http://futur.upc.edu/NuriaVilaVidal>)
Others:
Peris March, Maria Elvira (<http://futur.upc.edu/MariaElviraPerisMarch>)

Degree competences to which the subject contributes

Specific:

9. Apply geometry, calculations and statistics for modeling and solving problems related to optics and optometry.
10. Being able to take, treat, represent and interpret experimental data. "Use basic laboratory equipment and techniques"
11. 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
12. Acquire skills in patient care
13. Establish protocols, analyze results and elaborate the corresponding reports
14. Designing protocols for prevention of visual health

Generical:

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
2. Extract the main points of a text or any source of information (oral or written)
3. Develop empathy with people
4. Display information orally and in writing of reasonably and coherent.
5. Judgments (ratings) reports and surveys
6. Assessing the acquisition of the course objectives.
7. Encourage methodical work, rigorous, consistent and innovative
8. Working with evidence, methodology and rigour.



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Teaching methodology

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Learning objectives of the subject

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Study load

Total learning time: 144h	Hours large group:	0h	0.00%
	Hours medium group:	18h	12.50%
	Hours small group:	42h	29.17%
	Guided activities:	0h	0.00%
	Self study:	84h	58.33%

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Content

(ENG) (CAT) -Objetivos de un cribado

Degree competences to which the content contributes:

(ENG) (CAT) -Características de un cribado

Degree competences to which the content contributes:

(ENG) (CAT) -Realización práctica del cribado visual

Degree competences to which the content contributes:

(ENG) (CAT) -Población y Muestra. Muestreo. Muestra aleatoria.

Degree competences to which the content contributes:

(ENG) (CAT) -Probabilidad. Modelos de distribución. El modelo normal.

Degree competences to which the content contributes:

(ENG) (CAT) -La distribución de la media muestral.

Degree competences to which the content contributes:

(ENG) (CAT) -Estimación per intervalos.

Degree competences to which the content contributes:

(ENG) (CAT) -Contrastes de hipótesis sobre medias.

Degree competences to which the content contributes:

(ENG) (CAT) -Regresión Lineal.

Degree competences to which the content contributes:

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(ENG) (CAT) -Tablas de contingencia. Dependencia.

Degree competences to which the content contributes:

(ENG) (CAT) -Contrastes de forma.

Degree competences to which the content contributes:

Qualification system

Bibliography