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: 2018
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

Generic:
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

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 144h</th>
<th>Hours large group: 0h 0.00%</th>
<th>Hours medium group: 18h 12.50%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group: 42h 29.17%</td>
<td>Guided activities: 0h 0.00%</td>
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<td>Self study: 84h 58.33%</td>
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<tr>
<td>Content</td>
<td>Degree competences to which the content contributes:</td>
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<td>------------------------------------------------------------------------</td>
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<tr>
<td>(ENG) (CAT) - Objetivos de un cribado</td>
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<td>(ENG) (CAT) - Características de un cribado</td>
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<tr>
<td>(ENG) (CAT) - Realización práctica del cribado visual</td>
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<td>(ENG) (CAT) - Población y Muestra. Muestreo. Muestra aleatoria.</td>
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<td>(ENG) (CAT) - Probabilidad. Modelos de distribución. El modelo normal.</td>
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<tr>
<td>(ENG) (CAT) - La distribución de la media muestral.</td>
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<td>(ENG) (CAT) - Estimación per intervalos.</td>
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<tr>
<td>(ENG) (CAT) - Contrastes de hipótesis sobre medias.</td>
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<td>(ENG) (CAT) - Regresión Lineal.</td>
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Qualification system

Bibliography