Degree competences to which the subject contributes

Transversal:
07 AAT N2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

Teaching methodology

- Lectures.
- Application classes.
- Exercises.

Learning objectives of the subject


Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
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</thead>
<tbody>
<tr>
<td>Hours large group:</td>
</tr>
<tr>
<td>Self study:</td>
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</table>
### Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Learning time</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1. Basic probability theory | 15h | **Learning time:** 15h  
**Theory classes:** 15h  
| 2. Random variable | 13h | **Learning time:** 13h  
**Theory classes:** 13h  
| 3. Several random variables | 14h | **Learning time:** 14h  
**Theory classes:** 14h  
| 4. Statistics I | 13h | **Learning time:** 13h  
**Theory classes:** 13h  
5. Statistics II

| Learning time: 10h |
| Theory classes: 10h |

**Description:**
Fitting lines. Regression in one and several variables. Method of the least squares, orthogonality principle. Linear models. ANOVA. Non parametric tests. Bayesian statistics.

**Qualification system**

- Parcial exams: 40%
- Final exam: 60%

**Bibliography**

**Basic:**
