Degree competences to which the subject contributes

Transversal:


Teaching methodology

The subject uses a 40% of master classes, and 60% of problem ans exercises.

Learning objectives of the subject

To Show the students different tools to take decisions. To establish the basis to capacitate student to formalize problems, and decision processeses.

A secondary objective of the subject is to complement other decision methods that the student has studied in different subject.
## Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 45h</th>
<th>30.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 15h</td>
<td>10.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 90h</td>
<td>60.00%</td>
</tr>
</tbody>
</table>

## Content

### Single Person decision-making

**Learning time:** 29h  
- Theory classes: 9h  
- Laboratory classes: 3h  
- Self study: 17h

### Decision Trees

**Learning time:** 29h  
- Theory classes: 9h  
- Laboratory classes: 3h  
- Self study: 17h

### Utility and evaluation of alternatives

**Learning time:** 29h  
- Theory classes: 9h  
- Laboratory classes: 3h  
- Self study: 17h

### Zero-Sum games

**Learning time:** 31h 30m  
- Theory classes: 9h  
- Laboratory classes: 3h  
- Self study: 19h 30m

### Cooperative games

**Learning time:** 31h 30m  
- Theory classes: 9h  
- Laboratory classes: 3h  
- Self study: 19h 30m
Evaluation is performed by solving small exercises during the classes, student presentations and guided exercises.

Bibliography

Basic:


Complementary:
