270711 - CIR - Cognitive Interaction with Robots

Coordinating unit: 270 - FIB - Barcelona School of Informatics
Teaching unit: 707 - ESAII - Department of Automatic Control
732 - OE - Department of Management

Academic year: 2019
Degree: MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE (Syllabus 2017). (Teaching unit Optional)
MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE (Syllabus 2009). (Teaching unit Optional)
MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE (Syllabus 2009). (Teaching unit Optional)
MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE (Syllabus 2012). (Teaching unit Optional)
ECTS credits: 4.5

Prior skills

None

Teaching methodology

MD1: Master class
MD2 Exhibition class
MD3: Lab supervision
MD4: Cooperative work supervision and guidance
MD5: Personal work managing
MD6: Tutoring
MD7: Queries

Learning objectives of the subject

1. The objective of this course is to prepare students to design, implement and evaluate systems that include human-machine interaction at large (either directly, through interfaces, or indirectly, through the computational treatment of textual information for human use). It integrates concepts and methods of artificial intelligence, computer and graphic design to provide a comprehensive understanding of the tasks and applications that involve a relationship between man and machine, especially the user-centric environments.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 15h</th>
<th>13.33%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>15h</td>
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<tr>
<td></td>
<td></td>
<td>13.33%</td>
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<tr>
<td></td>
<td>Hours small group:</td>
<td>7h 30m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.67%</td>
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<tr>
<td></td>
<td>Guided activities:</td>
<td>3h</td>
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<tr>
<td></td>
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<td>2.67%</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>72h</td>
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<td>64.00%</td>
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Content

**Cognitive Robotics**

**Degree competences to which the content contributes:**

**Description:**
Cognitive Robotics Project

Planning of activities

<table>
<thead>
<tr>
<th>Cognitive Robotics</th>
<th>Hours: 76h 18m</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 7h 30m</td>
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<tr>
<td></td>
<td>Practical classes: 15h</td>
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<td></td>
<td>Laboratory classes: 15h</td>
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<tr>
<td></td>
<td>Guided activities: 2h 48m</td>
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<tr>
<td></td>
<td>Self study: 36h</td>
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**Description:**
Cognitive Robotics Project

**Specific objectives:**
1

Qualification system

Course Project.

Evaluation Criteria are:
1) Course's contents relationship
2) Experimentation setup
3) Workload
4) Presentation

Bibliography

**Basic:**

