340458 - MIDA-I7P23 - Data Mining

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit: 723 - CS - Department of Computer Science
Academic year: 2015
Degree: BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 6
Teaching languages: Catalan

Teaching staff
Coordinator: MARIO MARTÍN MUÑOZ
Others: MARIO MARTÍN MUÑOZ

Degree competences to which the subject contributes

Specific:
1. CEC07. Ability to learn and develop techniques of computing learning and design and implement applications and systems which use them, including those dedicated to automatic information and knowledge extraction from large data volumes.
2. CEIS4. Ability to identify and analyze problems and design, develop, deploy, test and document software solutions based on an adequate knowledge of theories, models and techniques.

Transversal:
3. ENTREPRENEURSHIP AND INNOVATION: Knowing about and understanding how businesses are run and the sciences that govern their activity. Having the ability to understand labor laws and how planning, industrial and marketing strategies, quality and profits relate to each other.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 15h</th>
<th>10.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>0h</td>
</tr>
<tr>
<td></td>
<td>Hours small group:</td>
<td>30h</td>
</tr>
<tr>
<td></td>
<td>Guided activities:</td>
<td>0h</td>
</tr>
<tr>
<td></td>
<td>Self study:</td>
<td>105h</td>
</tr>
</tbody>
</table>
Content

(ENG) 1. Introducció a la Mineria de Dades.
Degree competences to which the content contributes:

(ENG) 2. Caracterització i preparació de dades
Degree competences to which the content contributes:

(ENG) 3. Introducció a la classificació
Degree competences to which the content contributes:

(ENG) 4. Naive Bayes i Veins propers
Degree competences to which the content contributes:

(ENG) 5. Arbres de decisió.
Degree competences to which the content contributes:

(ENG) 6. Xarxes Neuronals
Degree competences to which the content contributes:

(ENG) 7. Maquines de support vectorial y boosting
Degree competences to which the content contributes:

(ENG) 8. Clustering
Degree competences to which the content contributes:

(ENG) 9. Regles d'associació
Degree competences to which the content contributes:
### Planning of activities

<table>
<thead>
<tr>
<th>(ENG) PRIMER PARCIAL</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>(ENG) SEGON PARCIAL</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>(ENG) ACTIVITAT 1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>(ENG) ACTIVITAT 2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>(ENG) PRÀCTICA</th>
</tr>
</thead>
</table>
Bibliography

Basic:


Complementary:


