Course guides  
340458 - MIDA-I7P23 - Data Mining

Unit in charge: Vilanova i la Geltrú School of Engineering  
Teaching unit: 723 - CS - Department of Computer Science.

Degree: BACHELOR’S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2010). (Optional subject).  
BACHELOR’S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2018). (Optional subject).

Academic year: 2020  
ECTS Credits: 6.0  
Languages: Catalan

LECTURER

Coordinating lecturer: 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 volums.
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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>20.00</td>
</tr>
<tr>
<td>Self study</td>
<td>90,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>30,0</td>
<td>20.00</td>
</tr>
</tbody>
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Total learning time: 150 h

CONTENTS

(ENG) 1. Introducció a la Mineria de Dades.
(ENG) 2. Caracterització i preparació de dades

(ENG) 3. Introducció a la classificació

(ENG) 4. Naive Bayes i Veins propers

(ENG) 5. Arbres de decisió.

(ENG) 6. Xarxes Neuronals

(ENG) 7. Maquines de support vectorial y boosting

(ENG) 8. Clustering

(ENG) 9. Regles d’associació

ACTIVITIES

(ENG) PRIMER PARCIAL

(ENG) SEGON PARCIAL

(ENG) ACTIVITAT 1

(ENG) ACTIVITAT 2

(ENG) PRÀCTICA

GRADING SYSTEM
BIBLIOGRAPHY

Basic:

Complementary: