Course guide
320030 - CP - Advanced Programming

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 723 - CS - Department of Computer Science.

Degree: BACHELOR’S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2022    ECTS Credits: 6.0    Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: Jordi Marco
Others: Pepa López

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUDES

Transversal:
1. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
3. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.

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>Self study</td>
<td>90,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>60,0</td>
<td>40.00</td>
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</tbody>
</table>

Total learning time: 150 h
CONTENTS

(ENG) Tema 1. Classes i Objectes

Full-or-part-time: 30h
Laboratory classes: 12h
Self study : 18h

(ENG) Tema 2. Herència i Polimorfisme

Full-or-part-time: 42h
Laboratory classes: 18h
Self study : 24h

(ENG) Tema 3. Programació visual

Full-or-part-time: 18h
Laboratory classes: 6h
Self study : 12h

(ENG) Tema 4. Estructures de dades

Full-or-part-time: 60h
Theory classes: 24h
Self study : 36h

GRADING SYSTEM

BIBLIOGRAPHY

Basic: