

# Course guide 320030 - CP - Advanced Programming

Last modified: 02/04/2024

Unit in charge: Teaching unit:	Terrassa School of Industrial, Aerospace and Audiovisual Engineering 723 - CS - Department of Computer Science.
Degree:	<ul> <li>BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009). (Optional subject).</li> <li>BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Optional subject).</li> </ul>
Academic year: 2024	ECTS Credits: 6.0 Languages: Catalan, Spanish

LECTURER	
Coordinating lecturer:	Jordi Marco

Others: Pepa López

# DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

#### 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**

Туре	Hours	Percentage
Hours small group	60,0	40.00
Self study	90,0	60.00

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:**

- Horstmann, C. S.; Cornell, G. Java 2. Vol 1, Fundamentos. Madrid: Prentice Hall, 2003. ISBN 8420537001.