

Course guide

205220 - POOA - Advanced Programming Oriented Towards Goals

Last modified: 11/04/2025

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 AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: JORDI MARCO GOMEZ - MARIA JOSE LOPEZ LOPEZ

Others:

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Type	Hours	Percentage
Self study	45,0	60.00
Hours small group	30,0	40.00

Total learning time: 75 h

CONTENTS

Module 1: Visual programming

Description:

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Related activities:

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Full-or-part-time: 20h

Laboratory classes: 10h

Self study : 10h

Module 2: Data structures

Description:

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Full-or-part-time: 55h

Laboratory classes: 20h

Self study : 35h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Sánchez Allende, J. [et al.]. Programación en Java 2 [on line]. Madrid: McGraw-Hill, 2005 [Consultation: 11/05/2022]. Available on: https://www-ingebook-com.recursos.biblioteca.upc.edu/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=6431. ISBN 8448145917.

Complementary:

- Muñoz, C.; Niño, A.; Vizcaíno, A. Introducción a la programación con orientación a objetos. Madrid: Prentice Hall, 2002. ISBN 8420534404.