Goi Eskola Politeknikoa | Mondragon Unibertsitatea
Course: 2023 / 2024 - Course planning

[GIF301] ADVANCED PROGRAMMING

GENERAL INFORMATION

Studies	DEGREE IN COMPUTER ENGINEERING			**Subject**	PROGRAMMING
Semester	1	**Course**	2	**Mention / Field of specialisation**	
Character	COMPULSORY				
Plan	2022	**Modality**	Face-to-face	**Language**	CASTELLANO
Credits	6	**Hours/week**	5.44	**Total hours**	98 class hours + 52 non-class hours = **150 total hours**

PROFESSORS

ILLARRAMENDI REZABAL, MIREN

UGARTE QUEREJETA, MIRIAM

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
(No specific previous subjects required)	*(No previous knowledge required)*

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GIR203 - To develop applications in a robust, secure and efficient way, choosing the most appropriate paradigm and programming languages ??and efficiently using the most appropriate data types and structures to solve a problem.		x		5,4
G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and /or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy		x		0,32
G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language		x		0,28
			Total:	**6**

KC: Knowledge or Content / SK: Skills / AB: Abilities

SECONDARY LEARNING RESULTS

(No secondary learning results)

CONTENTS

1. Introduction to Object Oriented Development (Java)2. Object Model and principles   2.1 Classes and objects   2.2 Inheritance and Polymorphism   2.3 Interfaces3. Object Oriented Application Development   3.1 Collections   3.2 Use of files   3.3 Exception handling4. Graphical interfaces (JFC Swing)

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	https://labur.eus/biblio-GIF301
Moodle Platform	
Specific Master Software	
Video projections	