

[GIH304] SOFTWARE ENGINEERING

GENERAL INFORMATION

Studies	DEGREE IN COMPUTER ENGINEERING		Subject	?
Semester	1	Course	3	Mention / Field of specialisation
Character	COMPULSORY		Language	CASTELLANO/EUSKARA
Plan	2022	Modality	Face-to-face	Total hours
Credits	4,5	Hours/week	4.1	73.8 class hours + 38.7 non-class hours = 112.5 total hours

PROFESSORS

ALDALUR CEBERIO, IÑIGO

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GIR304 - To apply the principles, methodologies and life cycles of software engineering to analyze, design, build and maintain applications in a robust, secure and efficient way		x		3,78
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		0,4
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		0,32
			Total:	4,5

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

CONTENTS

1. Introduction to software engineering
 2. Best practices
 2.1 Coding style
 2.2 Documentation
 3. Verification and Validation
 3.1 V&V Introduction
 3.2 Static Analysis
 3.2.1 Static Analysis Tools (SonarQube, SonarLint, etc.)
 3.3 Dynamic Analysis
 3.3.1 Unit Testing Tools (JUnit)
 3.3.2 User Testing Tools (Katalon)
 4. Configuration Management and Maintenance
 4.1 Version control tools

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes Technical articles Moodle Platform Specific Master Software	https://labur.eus/biblio-GIH304