

[GIF303] WEB ENGINEERING II

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	6	Hours/week	5.39	97 class hours + 53 non-class hours = 150 total hours

PROFESSORS

LARRINAGA BARRENECHEA, FELIX
 CUENCA ARIZA, JAVIER

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GIR302 - To be able to design, implement, evaluate and optimize web-based architectures for the development of distributed solutions		x		5,08
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		0,44
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		0,48
Total:				6

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

CONTENTS

1. Data exchange formats
 - 1.1 XML markup language.
 - 1.2 XML Schemas (XSD)
 - 1.3 Java Script Object Notation (JSON)
2. Techniques for data processing in a web context
 - 2.1 Serialization of Java objects to documents or data exchange files.
 - 2.2 JAXB serialization
 - 2.3 JSON Serialization
3. Web services
 - 3.1 SOAP services
 - 3.2 REST services
4. Distributed services integration
 - 4.1 Service Oriented Architectures (Integration)
 - 4.2 Service integration (Node-RED)

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes Moodle Platform Specific Master Software	https://labur.eus/biblio-GIF303