[GOM301] OPTIMISATION TECHNIQUES AND TOOLS II

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING			**Subject**	?
Semester	1	**Course**	3	**Mention / Field of specialisation**	
Character	COMPULSORY				
Plan	2022	**Modality**	Face-to-face	**Language**	CASTELLANO/EUSKARA
Credits	3	**Hours/week**	3	**Total hours**	54 class hours + 21 non-class hours = **75 total hours**

PROFESSORS

EREÑO INCERA, ANA MONSERRAT

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GOR309 - To generate knowledge through the identification and modeling of data to improve the management and evolution of the organization		x		2,56
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		0,2
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		0,24
			Total:	3

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

ENAEE LEARNING RESULTS	ECTS
ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field.	0,45
ENAE07 - Analysis in engineering: Ability to choose and apply relevant modelling and analytical methods.	0,3
ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.	0,39
ENAE12 - Research & innovation: Technical and lab competences.	0,39
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	0,3
ENAE17 - Transversal competences: To work effectively, both individually and in a team.	0,39
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,39
ENAE20 - Transversal competences: Demonstrate that they are aware of entrepreneurial practices and project management, in addition to risk control and management and understand their limitations.	0,39
Total:	3

CONTENTS

1- Introduction to databases

2- Data modeling- ER Model

3- Data normalization- Relational Model

4- Database system creation - Ms Access

5- Data exploitation- queries

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	*(No bibliography)*
Moodle Platform	
Class presentations	