

[GOH302] PROJECT MANAGEMENT

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	6	Hours/week	5	Total hours	90 class hours + 60 non-class hours = 150 total hours

PROFESSORS

GORROÑO ALBIZU, LEIRE
SARALEGUI ZALBIDE, EIDER

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GOR302 - To argue the application of project management methodologies appropriate for their application based on the characteristics of the context		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

ENAE LEARNING RESULTS

ENAE LEARNING RESULTS	ECTS
ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field.	1,82
ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, process and method engineering.	0,48
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet specific requirements.	0,4
ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.	0,42
ENAE12 - Research & innovation: Technical and lab competences.	0,42
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	0,78
ENAE17 - Transversal competences: To work effectively, both individually and in a team.	0,42
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,42
ENAE19 - Transversal competences: Demonstrate that they are aware of the responsibility implied in the practical application of engineering, the social and environmental impact, and show commitment with professional ethics, responsibility and regulations of the practical application of engineering.	0,42
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.	0,42
Total:	6

CONTENTS

Project Management of a single project. Techniques and Tools.

1. Introduction: What is a project? 2. Definition: Project and objectives 3. Project planning 4. Project execution 5. Project monitoring and control 6. Project ending and closing

Management of Multi-Project Environments

1. Multi-project environment: approximation, focus and prior reflections. 2. Main issues related to Multi-project Management 3. Key factors to consider in the solution

Critical Chain Project Management

1. Introduction to the TOC and CCPM. 2. Problems related to PM contexts (TOC perspective) 3. Description and features of the Systemic Model 4. Single project planning 5. Multi-project planning 6. Execution management 7. Other aspects related to the method

Agile Project Management 1. Introduction to Agile PM 2. Kanban 3. Scrum

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Subject notes
Technical articles
Video projections
Slides of the subject
Topic related web quires

Bibliography

Project Management Body of Knowledge, Project Management Institute (2017)
Wiley Guide, Managing Projects. Morris, P. & Pinto, J.K. (2004)
The Oxford Handbook of Project Management. Morris, P. ; Pinto, J.K. & Söderlund (2012)
La Meta: un proceso de mejora continua. Eliyahu M. Goldratt, Ed. Díaz de Santos, S.A. (1993)
Cadena Crítica. Eliyahu M. Goldratt, Ed. Díaz de Santos, S.A. (2001)
Project Management in the Fast Lane. Newbold, R.C., CRC Press (1998)
Critical Chain Project Management (3rd edition). Leach, L.P.; Artech House, Inc., (2005)