

[MHB205] RESEARCH PROJECT MANAGEMENT

GENERAL INFORMATION

Studies	UNIVERSITY MASTER IN INDUSTRIAL ENGINEERING		Subject	?
Semester	1	Course	2	Mention / Field of specialisation ???
Character	OPTIONAL		Language	CASTELLANO
Plan	2022	Modality	Face-to-face	Total hours 20 class hours + 55 non-class hours = 75 total hours
Credits	3	Hours/week	1.11	

PROFESSORS

URIBEETXEBERRIA EZPELETA, ROBERTO

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
MHRA19 - Knowledge and skills for calculating and designing industrial constructions and structures.		x		0,6
MHR125 - Having and understanding knowledge providing a basis or opportunity to be original in developing and/or applying ideas, often in a research context.		x		0,6
MHR126 - To apply the knowledge acquired and your problem-solving skills in new, little-known or changing environments within broader (or multidisciplinary) contexts related to your area of study		x		0,6
MHR128 - To communicate your conclusions and the knowledge and ultimate reasons that support them to specialized and non-specialized audiences in a clear and unambiguous way		x		0,6
MHR129 - To possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous		x		0,6
Total:				3

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

ENAE LEARNING RESULTS

ENAE LEARNING RESULTS	ECTS
ENA129 - Analysis in engineering: Ability to identify, formulate and solve engineering problems defined incompletely, and/or with conflicts, which accept different valid solutions and require considering knowledge beyond those of their discipline and take into account the social, health and security, environmental, economic and industrial implications; to select and apply the most appropriate methods of analysis, calculation and experimental, as well as the most innovative methods for solving problems.	0,5
ENA131 - Engineering projects: Ability to project, develop and design new complex products (parts, components, finished products, etc.), processes and systems with specifications defined incompletely and/or with conflicts, which require the integration of knowledge from different disciplines, and consider social, health and safety, environmental, economic and industrial aspects; to select and apply the appropriate methodologies or employ creativity to develop new project methodologies.	0,5
ENA132 - Engineering projects: Ability to project while applying the knowledge and cutting-edge understanding of their engineering speciality.	0,5
ENA137 - Research and innovation: Ability to investigate the application of the most advanced technologies in their speciality.	0,5
ENA147 - Communication and Teamwork: Ability to operate effectively in domestic contexts as a member or leader of a team, which may be composed of people of different disciplines and levels, and who can use virtual communication tools.	0,5
ENA149 - Continued training: Ability to acquire further knowledge autonomously.	0,5
Total:	3

SECONDARY LEARNING RESULTS

[RAH206] [!] Poseer y comprender conocimientos que aporten una base u oportunidad de ser originales en el desarrollo y/o aplicación de ideas, a menudo en un contexto de investigación

LEARNING ACTIVITIES

	CH	NCH	TH
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams		11 h.	11 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	4 h.		4 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

CH - Class hours: 4 h.
NCH - Non-class hours: 11 h.
TH - Total hours: 15 h.

RAH208 [!] *Comunicar sus conclusiones y los conocimientos y razones últimas que las sustentan a públicos especializados y no especializados de un modo claro y sin ambigüedades*

LEARNING ACTIVITIES
CH
NCH
TH

Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams

11 h.

11 h.

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

4 h.

4 h.

EVALUATION SYSTEM
W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

CH - Class hours: 4 h.
NCH - Non-class hours: 11 h.
TH - Total hours: 15 h.

RAH209 [!] *Poseer las habilidades de aprendizaje que les permitan continuar estudiando de un modo que habrá de ser en gran medida autodirigido o autónomo*

LEARNING ACTIVITIES
CH
NCH
TH

Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams

11 h.

11 h.

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

4 h.

4 h.

EVALUATION SYSTEM
W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

MAKE-UP MECHANISMS

(No mechanisms)

CH - Class hours: 4 h.
NCH - Non-class hours: 11 h.
TH - Total hours: 15 h.

RAH205 [!] *Demostrar capacidad para la gestión de la Investigación, Desarrollo e Innovación tecnológica*

LEARNING ACTIVITIES
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NCH
TH

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11 h.

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Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

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EVALUATION SYSTEM
W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

MAKE-UP MECHANISMS

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RAH207 [!] *Aplicar los conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos, poco conocidos o cambiantes dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio*

LEARNING ACTIVITIES

Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

CH

NCH

TH

11 h.

11 h.

4 h.

4 h.

EVALUATION SYSTEM

W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

MAKE-UP MECHANISMS

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NCH - Non-class hours: 11 h.
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CONTENTS

1. Introduction and basic definitions
2. The financing of a research or transfer project.
3. The scientific quality of projects
4. Proposal planning
5. Funding opportunities in Europe
6. Experiences in leading a proposal
7. Evaluation of the proposal
8. Financial management
9. Funding opportunities in the BAC and GSA
10. Reading and interpreting the call for proposals
11. Entrepreneurship
12. Intellectual and Industrial Property
13. Practical case

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Class presentations

Bibliography

Ley de la ciencia y la tecnología, MICINN,
<http://www.boe.es/boe/dias/2011/06/02/pdfs/BOE-A-2011-9617.pdf>
Marco comunitario sobre ayudas estatales de investigación y desarrollo e innovación, Diario Oficial de la Unión Europea (2006/C 323/01)
Manual de Frascati, OECD Publications Service, 2002,
<http://www.uis>.

unesco.org/Library/Documents/OECDFrascatiManual02_en.pdf.

Norma UNE 166001: 2006 Gestión de la I+D+i: Requisitos de proyectos de I+D+I, Ed. AENOR, 2006.

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<http://www.euskadinnova.net/es/innovacion-tecnologica/ambitos-actuacion/pcti-2015/163.aspx>

Ayudas I+D+i Administración General del Estado:

<http://www.idi.minec>

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Research & Innovation – European Commission:

<http://ec.europa.eu/research>