

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

Course 3



[GDW305] DESIGN METHODOLOGY II

GENERAL INFORMATION

Studies DEGREE IN INDUSTRIAL DESIGN AND

PRODUCT DEVELOPMENT ENGINEERING

Mention / Field of

Character COMPULSORY

specialisation

Subject ?

Plan 2022

Semester 1

Modality Face-to-face Language CASTELLANO/EUSKARA

Credits 4,5 Hours/week 3.83 Total hours 69 class hours + 43.5 non-class hours = 112.5 total

Total:

0,16

4,5

Total:

hours

PROFESSORS

GONZALEZ OCHOANTESANA, ITSASO URIARTE IÑURRATEGUI, IONE

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

LEARNING RESULTS							
LEARNING RESULTS	KC	SK	AB	ECTS			
GDR309 - To define a product by applying the right tools		Х		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 accuracy units including and non discriminatory longuage.		x		0,32			

sources, using inclusive and non-discriminatory language

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

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ENAEE LEARNING RESULTS	ECTS
ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field.	0,72
ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, process and method engineering.	1,2
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet specific requirements.	0,48
ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.	0,6
ENAE10 - Research & innovation: Ability to perform bibliographic searches, to use databases and other sources of information.	0,24
ENAE11 - Research & innovation: Ability to design and carry out experiments, to interpret data and draw conclusions.	0,52
ENAE13 - Practical application of engineering: Ability to select and use suitable equipment, tools and methods.	0,12
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	0,12
ENAE16 - Practical application of engineering: To be aware of the implications of the practical application of engineering.	0,12
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,12
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.	0,1

CONTENTS

ENAE21 - Transversal competences: To recognise the need for and be able to voluntarily develop continuous learning.

- 1_ Introduction : Design methodology
- 2_ Strategic search
- 2.1 Depest
- 2.2 SWOT _TOWS
- 3_Exploration phase



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- 3.1 HCD toolds
- 3.2 Functional analisis
- 3.2 FMEA
- 3.4 Value analysis

IFARNIN	NG RESOURCES A	AND BIBLIOGRAPHY

Learning resources Bibliography

Subject notes Moodle Platform Class presentations http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k. pl?grupo=DISINDUSTRIAL31&ejecuta=40&_ST