

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning



[GDJ302] COMPUTER-AIDED DESIGN I

GENERAL INFORMATION

Studies DEGREE IN INDUSTRIAL DESIGN AND

Subject ?

PRODUCT DEVELOPMENT ENGINEERING

Mention / Field of

Character COMPULSORY

specialisation

Plan 2022

Modality Face-to-face

Credits 6

Semester 1

Hours/week 3.44

Course 3

Language CASTELLANO/EUSKARA

Total hours 62 class hours + 88 non-class hours = 150 total

hours

PROFESSORS

ARANBURU GORROTXATEGI, ARITZ BASKARAN RAZKIN, MAIDER

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS				
LEARNING RESULTS	KC	SK	AB	ECTS
GDR303 - To demonstrate the capacity for spatial vision and knowledge of graphic representation techniques, both through traditional methods of metric geometry and descriptive geometry, and through computer-aided design applications			х	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

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

ENAEE LEARNING RESULTS ECTS 0.32 ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field. ENAE04 - Knowledge and understanding: To be aware of the multidisciplinary context of engineering. 0,24 ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, process and 1 method engineering. ENAE07 - Analysis in engineering: Ability to choose and apply relevant modelling and analytical methods. ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet 8,0 specific requirements. 0,72 ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.

ENAE13 - Practical application of engineering: Ability to select and use suitable equipment, tools and methods.

0.64 0.48

0,4

0,4

Total:

6

ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.

ENAE16 - Practical application of engineering: To be aware of the implications of the practical application of engineering.

ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community

and society in general.

Total:

SECONDARY LEARNING RESULTS

RGD390 [!] Definir y gestionar los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías específicas de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrate

LEARNING ACTIVITIES	CH	NCH	TH	
Development and writing of records, reports, presentations, audiovisual material, etc. on	1 h.	3 h.	4 h.	
projects/work experience/challenges/case studies/experimental investigations carried out				

W **EVALUATION SYSTEM MAKE-UP MECHANISMS** 100% Reports on the completion of exercises, case studies, (No mechanisms)

individually and/or in teams



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computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

CH - Class hours: 1 h. NCH - Non-class hours: 3 h. TH - Total hours: 4 h.

RGD391 [!] Coordinar el equipo de trabajo, estimulando la cohesión y buen clima para lograr la integración de todas las personas y su contribución para alcanzar un rendimiento apropiado, tanto a nivel individual como grupal, para el desarrollo del proyecto en

LEARNING ACTIVITIES

Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

CH NCH TH

1 h. 3 h. 4 h.

100%

Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

MAKE-UP MECHANISMS
(No mechanisms)

CH - Class hours: 1 h. NCH - Non-class hours: 3 h. TH - Total hours: 4 h.

EVALUATION SYSTEM

RGD392 [!] Identificar y argumentar de forma precisa los ODS en los que incide el proyecto realizado, aportando posibles acciones para la mejora.

LEARNING ACTIVITIES

Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

CH NCH TH

1 h. 2 h. 3 h.

EVALUATION SYSTEM W MAKE-UP MECHANISMS

Presentation and defence of exercises, case studies, 100% (No mechanisms)

Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 1 h. NCH - Non-class hours: 2 h. TH - Total hours: 3 h.

RGD393 [!] Elabora la memoria del proyecto, aportando argumentos elaborados y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.

 LEARNING ACTIVITIES
 CH
 NCH
 TH

 Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out
 2 h.
 4 h.
 6 h.

projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

EVALUATION SYSTEM W MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

(No mechanisms)

100%



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exercises, term projects, challenges and problems

CH - Class hours: 2 h. NCH - Non-class hours: 4 h. TH - Total hours: 6 h.

RGD394 [!] Realiza una presentación oral del proyecto, justificando las soluciones propuestas con argumentos elaborados y precisos, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.

LEARNING ACTIVITIES	СН	NCH	тн
Development and writing of records, reports, presentations, audiovisual material, etc. on	2 h.	4 h.	6 h.
projects/work experience/challenges/case studies/experimental investigations carried out			

individually and/or in teams

EVALUATION SYSTEM MAKE-UP MECHANISMS 100%

Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 2 h. NCH - Non-class hours: 4 h. TH - Total hours: 6 h.

RGD305 [!] Desarrolla los componentes del producto apoyándose en el CAD 3D a nivel industrializable

LEARNING ACTIVITIES	СН	NCH	TH
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	2 h.	-	2 h.
Computer simulation exercises, individually and/or in teams	38 h.	42 h.	80 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	15 h.	30 h.	45 h.

W

20%

EVALUATION SYSTEM MAKE-UP MECHANISMS Reports on the completion of exercises, case studies, 20% Individual written and/or oral tests or individual computer exercises, simulation exercises, laboratory coding/programming tests exercises, term projects, challenges and problems Presentation and defence of exercises, case studies, 60% computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 55 h. NCH - Non-class hours: 72 h. TH - Total hours: 127 h.

coding/programming tests

Individual written and/or oral tests or individual

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources **Bibliography**

Subject notes

http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k. pl?grupo=DISINDUSTRIAL31&ejecuta=10&_ST

(No mechanisms)



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Goi Eskola Politeknikoa Escuela Politécnica Superior

Programmes Class presentations