

Course: 2023 / 2024 - Course planning

Modality Face-to-face



[GDJ301] GRAPHIC EXPRESSION III

GENERAL INFORMATION

Studies DEGREE IN INDUSTRIAL DESIGN AND

Subject DRAWING

PRODUCT DEVELOPMENT ENGINEERING Semester 2 Course 2

Character COMPULSORY

Mention / Field of

specialisation

Plan 2022

Credits 6

Language CASTELLANO/EUSKARA

Hours/week 6.89

Total hours [!] 124 class hours + 161 non-class hours = 285

total hours

PROFESSORS

ZUGASTI TESO, FELIX BASKARAN RAZKIN, MAIDER

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge **GRAPHIC EXPRESSION I** (No previous knowledge required) **GRAPHIC EXPRESSION II**

LEARNING RESULTS				
LEARNING RESULTS	кс	sĸ	AB	ECTS
GDR210 - 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	5,4
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		0,32
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		0,28
KC: Knowledge or Content / SK: Skills / AB: Abilities			Total:	6
ENAEE LEARNING RESULTS				ECTS
ENAE02 - Knowledge and understanding: A systematic understanding of the key aspects and concepts of the engineering.	eir br	anch o	f	0,72
ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, μ method engineering.	oroce	ss and		0,72
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of project specific requirements.	ts wh	ich me	et	1,6
ENAE13 - Practical application of engineering: Ability to select and use suitable equipment, tools and method	ds.			1,6
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and the	ir limi	tations		0,96
ENAE19 - Transversal competences: Demonstrate that they are aware of the responsibility implied in the pra of engineering, the social and environmental impact, and show commitment with professional ethics, respon regulations of the practical application of engineering.			ation	0,4

Total:

SECONDARY LEARNING RESULTS

RGD290 [!] Proponer los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías propias de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrategía de aprendiz

LEARNING ACTIVITIES	СН	NCH	TH
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	1 h.	3 h.	4 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
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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

(No mechanisms)

100%



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

RGD291 [!] Establecer las responsabilidades de los miembros del equipo utilizando técnicas adecuadas para fomentar la eficiencia del equipo para el desarrollo del proyecto en los plazos establecidos (compartir recursos, aportar ideas, habilidades comunicativas

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%

EVALUATION SYSTEM W MAKE-UP 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

(No mechanisms)

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

RGD293 [!] Redacta y estructura correctamente la memoria del proyecto, haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje. Para ello, busca y hace uso de las fuentes de información adecuadas.

LEARNING ACTIVITIESCHNCHTHDevelopment and writing of records, reports, presentations, audiovisual material, etc. on1 h.3 h.4 h.

100%

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

EVALUATION SYSTEM W MAKE-UP 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

(No mechanisms)

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

RGD294 [!] Realiza una presentación oral del proyecto con argumentos elaborados por sí mismos 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 1h, 2h, 3h,

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

EVALUATION SYSTEM W MAKE-UP 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

(No mechanisms)

100%



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

RGD216 [!] Representa y acota piezas con superficies complejas respetando las normas de dibujo técnico además de diseñar los moldes necesrios acordea a su posterior fabricación.

Personal study and flexible development of concepts and foster more meaningful learning	l subjects	using active dynamics, to	CH 47 h.	NCH 55 h.	<i>TH</i> 102 h.
Conducting tests, giving presentations, presenting defendence checkpoints	ces, taking	examinations and/or doing	3 h.		3 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	ИS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	40%		(No mech	anisms)	
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	20%				
Individual written and/or oral tests or individual coding/programming tests	40%				
CH - Class hours: 50 h. ICH - Non-class hours: 55 h.					

RGD217 [!] Realiza diseños de estructuras soldadas y piezas modeladas en chapa

LEARNING ACTIVITIES		СН	NCH	TH	
Computer simulation exercises, individually and/or in tear	ms	5 h.	10 h.	15 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	(No me	echanisms)		

CH - Class hours: 5 h. NCH - Non-class hours: 10 h. TH - Total hours: 15 h.

RGD218 [!] Describe los parámetros y realiza parametrizaciones de conjuntos y piezas correctamente.

LEARNING ACTIVITIES	СН	NCH	TH
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	5 h.	10 h.	15 h.

EVALUATION SYSTEM W MAKE-UP MECHANISMS

Presentation and defence of exercises, case studies. 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

(No mechanisms)



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CH - Class hours: 5 h. NCH - Non-class hours: 10 h. TH - Total hours: 15 h.

RGD216 [!] Representa y acota piezas con superficies complejas respetando las normas de dibujo técnico además de diseñar los moldes necesrios acordea a su posterior fabricación

LEARNING ACTIVITIES	СН	NCH	тн
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	47 h.	55 h.	102 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	3 h.		3 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	40%	(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	20%	
Individual written and/or oral tests or individual coding/programming tests	40%	

CH - Class hours: 50 h. NCH - Non-class hours: 55 h. TH - Total hours: 105 h.

RGD217 [!] Realiza diseños de estructuras soldadas y piezas modeladas en chapa

LEARNING ACTIVITIES	СН	NCH	TH
Computer simulation exercises, individually and/or in teams	5 h.	10 h.	15 h.

EVALUATION SYSTEM W MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, 100% (No mechanisms)

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

CH - Class hours: 5 h. NCH - Non-class hours: 10 h. TH - Total hours: 15 h.

RGD218 [!] Describe los parámetros y realiza parametrizaciones de conjuntos y piezas correctamente

LEARNING ACTIVITIES	СН	NCH	ТН
Personal study and flexible development of concepts and subjects using active dynamics, to	5 h.	10 h.	15 h.
foster more meaningful learning			

EVALUATION SYSTEM W MAKE-UP 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

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(No mechanisms)

CH - Class hours: 5 h.

100%



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NCH - Non-class hours: 10 h. TH - Total hours: 15 h.

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY Learning resources Class presentations Video projections Computer practical training LEARNING RESOURCES AND BIBLIOGRAPHY https://katalogoa.mondragon.edu/janium-bin/sumario.pl?ld=2024010 3143045