

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

[GBD201] GRAPHIC EXPRESSION I

GENERAL INFORMATION

Studies DEGREE IN BIOMEDICAL ENGINEERING Subject GRAPHIC EXPRESSION

Semester 2 Course 1 Mention / Field of Specialisation

Plan 2022 Modality Face-to-face Language EUSKARA

Credits 6 Hours/week 5.22 Total hours 94 class hours + 56 non-class hours = 150 total

<u>hours</u>

2030 AGENDA GOALS



PROFESSORS

LAPEIRA AZCUE, ESTELA

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS					
LEARNING RESULTS	KC	SK	AB	ECTS	
G-RA02 - To demonstrate 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	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		0,36	
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		0,24	

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

SECONDARY LEARNING RESULTS

2RGB190 (2 sem)

LEARNING ACTIVITIES

CH

NCH

TH

Development and writing of records, reports, presentations, audiovisual material, etc. on 2 h. 1 h. 3 h.

100%

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

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

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

Total:

Observation (technical capacity, attitude and participation)

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

2RGB192 (2 sem)

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

2 h. 1 h. 3 l



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

LEARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/expering andividually and/or in teams			1 h.	4 h.	5 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints			6 h.	5 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.	8 h.
Carrying out exercises and solving problems individually a	and/or in te	eams	20 h.	6 h.	26 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	IS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	10%	Individual written and/or coding/programming test		or individual	
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, aboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	10%				
ndividual written and/or oral tests or individual coding/programming tests	80%				

RGB104 [!] Acota y define las tolerancias necesarias le dibujo técnico	de las pie	ezas que forman un conjur	nto mecár	nico respetan	do las normas
LEARNING ACTIVITIES			СН	NCH	тн
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experindividually and/or in teams			3 h.	5 h.	8 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints				7 h.	17 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects			8 h.		8 h.
Carrying out exercises and solving problems individually and/or in teams		32 h.	20 h.	52 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	IS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	10%	Individual written and/or oral tests or individual coding/programming tests			
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	10%				
Individual written and/or oral tests or individual coding/programming tests	80%				

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CH - Class hours: 53 h. NCH - Non-class hours: 32 h. TH - Total hours: 85 h.

2RGB193 (2 sem)

NCH ТН **LEARNING ACTIVITIES** СН

100%

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

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

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

Observation (technical capacity, attitude and participation)

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

2RGB194 (2 sem)

LEARNING ACTIVITIES NCH TH СН Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in 2 h. 3 h. 1 h.

interdisciplinary contexts, real and/or simulated, individually and/or in teams

EVALUATION SYSTEM MAKE-UP MECHANISMS 100%

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

exercises, term projects, challenges and problems

(No mechanisms)

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

2RGB191 (2 sem)

LEARNING ACTIVITIES 2 h. 1 h. 3 h.

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

W **EVALUATION SYSTEM** 25% Self-assessment Co-assessment Observation (technical capacity, attitude and participation)

MAKE-UP MECHANISMS

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

Observation (technical capacity, attitude and participation)

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

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CONTENTS

1. Representation of parts1.1. Orthogonal representation and cuts1.2. Dimensioning2. Threaded joints3. Cl earances (dimensional, surface, geometric)4. Mechanical elements and interpretation of assemblies5. Solid Works

LEARNING RESOURCES AND BIBLIOGRAPHY				
Learning resources	Bibliography			
 [!] Plataforma Moodle [!] Consultas en páginas web relacionadas con el tema [!] Transparencias de la asignatura [!] Software específico de la titulación [!] Proyección de videos 	Prácticas de Dibujo Técnico (Cortes y secciones). Joaquín Gonzalo Editorial Donostiarra. ISBN 8470633163			
	Vistas y visualización de formas. Gaspar Fernández. Editorial Donostiarra. ISBN 8470633155			
	Normalización del Dibujo Técnico. Candido Preciado y Francisco Jesús Moral. Editorial Donostiarra. ISBN 9788470633096			