

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course 1

Course: 2023 / 2024 - Course planning

GENERAL INFORMATION

Studies ENGINEERING PHYSICS APPLIED TO

Subject Graphic Expression

Semester 2

Mention / Field of

Character BASIC TRAINING

specialisation

Plan 2022

Modality Face-to-face Language CASTELLANO

Credits 6 Hours/week 0

Total hours 90 class hours + 60 non-class hours = 150 total

hours

PROFESSORS

LETE ELORZA, IGOR

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS KC SK AB **ECTS** LEARNING RESULTS GFR004 - Showing spatial vision and knowledge of graphic representation techniques, using the methods of both traditional metric geometry and descriptive geometry, as well as computer-assisted design 0,32 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 0.28 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

Total:

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

SECONDARY LEARNING RESULTS

RGF190 [!] Conocer y aplicar las fases para desarrollar de forma guiada, con los objetivos y la planificación previamente definidos, un proyecto de complejidad técnica acorde con los conocimientos de formación básica de la ingeniería. Reflexiona sobre los con

LEARNING ACTIVITIES TH Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in 2 h. 4 h. interdisciplinary contexts, real and/or simulated, individually and/or in teams

100%

EVALUATION SYSTEM MAKE-UP MECHANISMS

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: 2 h. TH - Total hours: 4 h.

RGF191 [!] Contribuir en la estrategia de funcionamiento del equipo priorizando los objetivos comunes, fomentando y valorando la participación de todas las personas y responsabilizándose de las tareas individuales, así como del cumplimiento de plazos.

СН NCH TH **LEARNING ACTIVITIES** 2 h. 4 h. Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams

MAKE-UP MECHANISMS EVALUATION SYSTEM

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25% Self-assessment (No mechanisms)

25% Co-assessment Observation (technical capacity, attitude and participation)

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

RGF193 [!] Redacta una memoria de proyecto clara y concisa utilizando las fuentes de información y estructura de memoria facilitadas, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.

ТН NCH **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 MAKE-UP MECHANISMS

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: 2 h. TH - Total hours: 4 h.

RGF194 [!] Realiza una presentación oral y defensa del proyecto clara y concisa, haciendo uso correcto, inclusivo y no discriminatorio del lenguaje.

100%

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

EVALUATION SYSTEM 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

3 h.

NCH

TH

3 h.

CH - Class hours: 3 h. NCH - Non-class hours: 0 h. TH - Total hours: 3 h.

RGF1111 [!] Representa diferentes tipos de piezas respetando las normas de dibujo técnico

LEARNING ACTIVITIES	СН	NCH	тн
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	3 h.	2 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 and/or in teams	18 h.	8 h.	26 h.

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W	MAKE-UP MECHANISMS	
20%	Individual written and/or oral tests or individual coding/programming tests	
10%		
70%		
	20%	20% Individual written and/or oral tests or individual coding/programming tests 10%

RGF112 [!] Acota y define las tolerancias necesarias de las piezas que forman un conjunto mecánico respetando las normas de dibujo técnico

dibujo tecinico						
LEARNING ACTIVITIES			СН	NCH	тн	
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				3 h.	8 h.	
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints				10 h.	20 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects			10 h.	2 h.	12 h.	
Carrying out exercises and solving problems individually and/or in teams			25 h.	20 h.	45 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	20%	Individual written and/or coding/programming test		or individual		
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	70%					
CH - Class hours: 50 h. NCH - Non-class hours: 35 h. TH - Total hours: 85 h.						

CONTENTS

- 1. Standardisation
- 2. Projection systems
- 3. Secition views and cuts
- 4. Drawing dimensioning
- 5. Assembly representation
- 6. Dimensional tolerances
- 7. Surface tolerances
- 8. Geometrical tolerances
- 9. Mechanical elements



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LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Bibliography

Subject notes

Topic related web quires Moodle Platform Class presentations

https://labur.eus/2eR2r