

## Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

[GAG201] CHEMISTRY
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#### **GENERAL INFORMATION**

Studies DEGREE IN ENERGY ENGINEERING Subject MECHANICS

Semester 2 Course 1 Mention / Field of Specialisation

Plan 2022 Modality Face-to-face Language EUSKARA

Credits 6 Hours/week 3.56 Total hours 64 class hours + 86 non-class hours = 150 total

hours

#### **PROFESSORS**

AROSTEGUI OCHOA, ASIER

### REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS				
LEARNING RESULTS	KC	SK	AB	ECTS
<b>G-RA08</b> - To understand and apply the principles of basic knowledge of general chemistry, organic and inorganic chemistry and their applications in engineering		X	_	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		0,28
<b>G-RTR2</b> - 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		0,32

Total: 6

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

#### SECONDARY LEARNING RESULTS

RGA115 [!] Conoce las características de los materiales que tienen una situación física diferente partiendo de las características atómicas

LEARNING ACTIVITIES	СН	NCH	TH	
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning		19 h.	19 h.	
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	2 h.		2 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	15 h.		15 h.	
Carrying out exercises and solving problems individually and/or in teams	15 h.	10 h.	25 h.	
Practical work in workshops and/or laboratories, individually and/or in teams	2 h.	2 h.	4 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 Individual written and/or oral tests or individual

75%

25%

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 34 h. NCH - Non-class hours: 31 h. TH - Total hours: 65 h.

coding/programming tests

RGA116 [!] Identifica y desarrolla las reacciones químicas que ocurren en diferentes situaciones de servicio

LEARNING ACTIVITIES

СН

NCH

TH

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Unibertsitatea
Goi Eskola
Politeknikoa
Escuela Politécnica

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				14 h.	14 h.	
Personal study and flexible development of concepts and foster more meaningful learning	l subjects (	using active dynamics, to		19 h.	19 h.	
onducting tests, giving presentations, presenting defences, taking examinations and/or doing neckpoints			2 h.		2 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects					8 h.	
Carrying out exercises and solving problems individually	ally and/or in teams			5 h.	23 h.	
Practical work in workshops and/or laboratories, individually and/or in teams			2 h.	2 h.	4 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS				
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory	45%	Individual written and/or oral tests or individual coding/programming tests				
exercises, term projects, challenges and problems		ooding/programming too				
, ,	55%	county programming too				

RGA190 [!] 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 cono

LEARNING ACTIVITIES		СН	NCH	TH
Development and writing of records, reports, presentations, projects/work experience/challenges/case studies/experime individually and/or in teams			4 h.	4 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS		
Observation (technical capacity, attitude and participation)	100%	(No mech	anisms)	

CH - Class hours: 0 h. NCH - Non-class hours: 4 h. TH - Total hours: 4 h.

RGA191 [!] 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.

LEARNING ACTIVITIES		СН	,	NCH	тн	
Development and writing of records, reports, presentations projects/work experience/challenges/case studies/experime individually and/or in teams				3 h.	3 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS				
Self-assessment	33%	(No	(No mechanisms)			
Co-assessment	34%					
Observation (technical capacity, attitude and participation)	33%					
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.						

# Goi Eskola

Superior

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Escuela Politécnica

RGA193 [!] 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.

**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 individually and/or in teams

4 h.

4 h.

**EVALUATION SYSTEM** 

**MAKE-UP MECHANISMS** 

100%

(No mechanisms)

CH - Class hours: 0 h. NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

RGA194 [!] Realiza una presentación oral y defensa del proyecto clara y concisa, haciendo uso correcto, inclusivo y no discriminatorio del lenguaje.

**LEARNING ACTIVITIES** 

**EVALUATION SYSTEM** 

СН

NCH

TH 4 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

**MAKE-UP MECHANISMS** 

100%

(No 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

CH - Class hours: 0 h. NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

## **CONTENTS**

#### LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

**Bibliography** 

Moodle Platform Lab practical training Slides of the subject

Video projections

Topic related web quires

http://katalogoa.mondragon.edu/janium-bin/janium\_login\_opac\_re\_ln k.pl?grupo=ENERGIA12&ejecuta=20