

[GCF301] CHEMISTRY

GENERAL INFORMATION

| | | | | |
|------------------|--|-------------------|-----------------|---|
| Studies | DEGREE IN ENGINEERING IN ECO-TECHNOLOGY IN INDUSTRIAL PROCESS | | Subject | CHEMISTRY |
| Semester | 2 | Course | 1 | Mention / Field of specialisation |
| Character | BASIC TRAINING | | Language | EUSKARA |
| Plan | 2022 | Modality | Face-to-face | Total hours 63 class hours + 87 non-class hours = 150 total hours |
| Credits | 6 | Hours/week | 3.5 | |

PROFESSORS

FERNANDEZ LIZARRIBAR, GARBIÑE

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

| LEARNING RESULTS | KC | SK | AB | ECTS |
|--|----|----|----|------|
| G-RA08 - 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 |
| 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 | | 0,32 |

Total: 6

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

SECONDARY LEARNING RESULTS

RGC115 [!] *Conoce las características de los materiales que tienen una situación física diferente partiendo de las características atómicas*

LEARNING ACTIVITIES

| | CH | NCH | TH |
|---|-------|---------|---------|
| Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints | 2 h. | 12,5 h. | 14,5 h. |
| Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects | 10 h. | | 10 h. |
| Carrying out exercises and solving problems individually and/or in teams | 20 h. | 12,5 h. | 32,5 h. |
| Practical work in workshops and/or laboratories, individually and/or in teams | 4 h. | 4 h. | 8 h. |

EVALUATION SYSTEM

| | W |
|--|-----|
| Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems | 25% |
| Individual written and/or oral tests or individual coding/programming tests | 75% |

MAKE-UP MECHANISMS

(No mechanisms)

CH - Class hours: 36 h.

NCH - Non-class hours: 29 h.

TH - Total hours: 65 h.

RGC116 [!] *Identifica y desarrolla las reacciones químicas que ocurren en diferentes situaciones de servicio*

LEARNING ACTIVITIES

| | CH | NCH | TH |
|---|------|-------|-------|
| Conducting tests, giving presentations, presenting defences, taking examinations and/or doing | 2 h. | 12 h. | 14 h. |

checkpoints

| | | | |
|--|-------|-------|-------|
| Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams | | 14 h. | 14 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 | 15 h. | 15 h. | 30 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

45%

(No mechanisms)

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

55%

CH - Class hours: 27 h.

NCH - Non-class hours: 43 h.

TH - Total hours: 70 h.

RGC190 [!] *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

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

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: 0 h.

NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

RGC191 [!] *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

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

3 h.

3 h.

EVALUATION SYSTEM

W

MAKE-UP MECHANISMS

Self-assessment

50%

(No mechanisms)

Co-assessment

50%

CH - Class hours: 0 h.

NCH - Non-class hours: 3 h.

TH - Total hours: 3 h.

RGC193 [!] *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

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

4 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

100%

(No mechanisms)

CH - Class hours: 0 h.

NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

RGC194 [!] *Realiza una presentación oral y defensa del proyecto clara y concisa, haciendo uso correcto, inclusivo y no discriminatorio del lenguaje.*

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

4 h.

4 h.

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

100%

(No mechanisms)

CH - Class hours: 0 h.

NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Topic related web quires
 Moodle Platform
 Slides of the subject
 Video projections
 Lab practical training

Bibliography

http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_in k.pl?grupo=EKOTEKNOLOGIA12&ejecuta=25&_ST