

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

[GCB302] PHYSICS II

GENERAL INFORMATION

Studies DEGREE IN ENGINEERING IN

ECO-TECHNOLOGY IN INDUSTRIAL PROCESS

Course 1

Subject PHYSICS

Semester 2

Mention / Field of specialisation

Character BASIC TRAINING

Plan 2022

Modality Face-to-face Language EUSKARA

Credits 6 Hours/week 4.17 Total hours 75 class hours + 75 non-class hours = 150 total

Total:

hours

PROFESSORS

BERISTAIN MUGICA, MAIALEN

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS					
LEARNING RESULTS	KC	SK	AB	ECTS	
G-RA09 - To understand and master the basic concepts of the general laws of fields and waves; and electromagnetism and its application to solve engineering problems		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		0,28	
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	

SECONDARY LEARNING RESULTS

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

RGC117 [!] Identifica, examina y calcula la oscilación y los fenómenos de onda

LEARNING ACTIVITIES		СН	NCH	TH	
Conducting tests, giving presentations, presenting defences, ta checkpoints	king examinations and/or doing	3 h.	6 h.	9 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			3 h.	3 h.	
Presentation by the teacher in the classroom, in participatory cl procedures associated with the subjects	asses, of concepts and	6 h.		6 h.	
Carrying out exercises and solving problems individually and/or	r in teams	2 h.	5 h.	7 h.	
Practical work in workshops and/or laboratories, individually and/or in teams		2 h.		2 h.	
EVALUATION SYSTEM W MAKE-UP MECHANISMS		MS			

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Reports on the completion of exercises, case studies,	10%	Individual written and/or oral tests or individual
computer exercises, simulation exercises, laboratory		coding/programming tests
exercises, term projects, challenges and problems		

80%

10%

CH - Class hours: 13 h. NCH - Non-class hours: 14 h.

coding/programming tests Self-assessment

Individual written and/or oral tests or individual

TH - Total hours: 27 h.

RGC118 [!] Resuelve los problemas y las operaciones en el campo del electromagnetismo, relacionando correctamente las magnitudes físicas implicadas



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LEARNING ACTIVITIES			СН	NCH	TH
Conducting tests, giving presentations, presenting defendence checkpoints	es, taking	examinations and/or doing	4 h.	9 h.	13 h.
Carrying out/resolving projects/challenges/cases, etc. to projects/challenges/cases, e				6 h.	6 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects					18 h.
Carrying out exercises and solving problems individually and/or in teams			8 h.	9 h.	17 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	10%	Individual written and/or oral tests or individual coding/programming tests			
Individual written and/or oral tests or individual coding/programming tests	Individual written and/or oral tests or individual 80%				
Self-assessment	10%				
CH - Class hours: 30 h. NCH - Non-class hours: 24 h. TH - Total hours: 54 h.					

LEARNING ACTIVITIES			СН	NCH	TH
Conducting tests, giving presentations, presenting defend checkpoints	g ^{3 h.}	6 h.	9 h.		
Carrying out/resolving projects/challenges/cases, etc. to pinterdisciplinary contexts, real and/or simulated, individua		6 h.	6 h.		
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects					16 h.
Carrying out exercises and solving problems individually and/or in teams			7 h.	10 h.	17 h.
	Practical work in workshops and/or laboratories, individually and/or in teams				
, ,	ally and/or	in teams	6 h.		6 h.
, ,	ally and/or w	in teams MAKE-UP MECHANIS			6 h.
Practical work in workshops and/or laboratories, individual EVALUATION SYSTEM Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory	,		SMS or oral tests	or individual	6 h.
Practical work in workshops and/or laboratories, individua	w	MAKE-UP MECHANIS	SMS or oral tests	or individual	6 h.

REC190 [!] 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	тн
Development and writing of records, reports, presentations, audiovisual material, etc. on 4 h. 4 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams					
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	100%	(No mechanisms)			

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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 3 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

 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 CH NCH TH

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

(No mechanisms)

4 h.

4 h

4 h.

4 h

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.

100%

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

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



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CONTENTS

LEARNING RE	SOURCES AND BIBLIOGRAPHY
Learning resources	Bibliography
Moodle Platform	https://katalogoa.mondragon.edu/janium-bin/sumario.pl?Id=2021092
Subject notes	3
Class presentations	
Lab practical training	