

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

[GBU201] METHODOLOGICAL FOUNDATIONS

GENERAL INFORMATION

Studies DEGREE IN BIOMEDICAL ENGINEERING Subject BIOMEDICAL PROJECTS

Semester 1 Course 1 Mention / Field of Specialisation

Plan 2022 Modality Face-to-face Language EUSKARA

Credits 6 Hours/week 5.19 Total hours 93.5 class hours + 56.5 non-class hours = 150 total

<u>hours</u>

KC

SK

PROFESSORS

AGINAGALDE UNANUE, MAIALEN

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS

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

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:

AB

ECTS

3.92

2.08

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

LEARNING RESULTS

SECONDARY LEARNING RESULTS

RGB190 [!] 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 projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	21,5 h.	16,5 h.	38 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	6 h.		6 h.	

100%

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

Observation (technical capacity, attitude and participation)

CH - Class hours: 27,5 h.
NCH - Non-class hours: 16,5 h.
TH - Total hours: 44 h.

RGB191 [!] 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	
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	4 h.	3 h.	7 h.	

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NCH - Non-class hours: 12 h. TH - Total hours: 32 h.

Seminars, debates and/or workshops to deepen and/or share experiences.				4 h.		
Concept mapping			4 h.	9 h.	13 h.	
EVALUATION SYSTEM	N SYSTEM W MAKE-UP ME					
Self-assessment	12,5%	Reports on the completion of exercises, case studies, compu exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				
Co-assessment	12,5%					
Concept maps / Diagrams	50%					
Observation (technical capacity, attitude and participation)	25%	Observation (technica	ttitude and par	rticipation)		
CH - Class hours: 20 h						

RGB192 [!] Conoce y describe las fases para desarrollar los equipos de su ingeniería, e identifica y describe las funciones profesionales de un ingeniero, tomando conciencia de la contribución al logro de los objetivos de desarrollo sostenible (ODS)

LEARNING ACTIVITIES			СН	NCH	тн	
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experindividually and/or in teams	8 h.	8 h.	16 h.			
Personal study and flexible development of concepts and foster more meaningful learning	using active dynamics, to	6 h.		6 h.		
EVALUATION SYSTEM	W	MAKE-UP MECHANISI	MS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	50%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				
Concept maps / Diagrams	50%	Observation (technical of	capacity, at	titude and par	ticipation)	
CH - Class hours: 14 h. NCH - Non-class hours: 8 h. TH - Total hours: 22 h.						

RGE193 [!] 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				NCH	TH
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/expering andividually and/or in teams			10 h.	10 h.	20 h.
Presentation by the teacher in the classroom, in participat	tory classe	s, of concepts and	6 h.		6 h.
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eresentation by the teacher in the classroom, in participation or procedures associated with the subjects EVALUATION SYSTEM	WW	MAKE-UP MECHAN	SMS		
procedures associated with the subjects	•		etion of exerc exercises, lal		

RGB194 [!] Realiza una presentación oral y defensa del proyecto clara y concisa, haciendo uso correcto, inclusivo y no

NCH - Non-class hours: 10 h. TH - Total hours: 26 h.

discriminatorio del lenguaje.

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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						
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	tory classe	es, of concepts and	4 h.		4 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANI	SMS			
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%	Observation (technical capacity, attitude and participation)				

CH - Class hours: 16 h. NCH - Non-class hours: 10 h. TH - Total hours: 26 h.

CONTENTS

•Mentoring program

• Teamwork

•Learn to learn

• Written documentation

•Oral presentation

• PBL Methodology

• Profile of the Biomedical Engineer

LEARNING RESOURCES AND BIBLIOGRAPHY

 Learning resources
 Bibliography

 Subject notes
 (No bibliography)

Moodle Platform

Presentations by external Lecturers

Video projections