

## [GBU201] METHODOLOGICAL FOUNDATIONS

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN BIOMEDICAL ENGINEERING	<b>Subject</b>	BIOMEDICAL PROJECTS
<b>Semester</b>	1	<b>Course</b>	1
<b>Character</b>	COMPULSORY	<b>Mention / Field of specialisation</b>	
<b>Plan</b>	2022	<b>Modality</b>	Face-to-face
<b>Credits</b>	6	<b>Language</b>	EUSKARA
		<b>Total hours</b>	93.5 class hours + 56.5 non-class hours = <b>150 total hours</b>

### 2030 AGENDA GOALS



### PROFESSORS

AGINAGALDE UNANUE, MAIALEN

### REQUIRED PREVIOUS KNOWLEDGE

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

### LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
<b>G-RTR1</b> - 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		3,92
<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		2,08
<b>Total:</b>				<b>6</b>

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

### SECONDARY LEARNING RESULTS

#### 1RGB190 (1 sem)

#### 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

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

CH	NCH	TH
21,5 h.	16,5 h.	38 h.
6 h.		6 h.

#### EVALUATION SYSTEM

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

W

100%

#### MAKE-UP MECHANISMS

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.

#### 1RGB193 (1 sem)

#### 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
10 h.	10 h.	20 h.

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

6 h.

6 h.

#### **EVALUATION SYSTEM**

**W**

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

#### **MAKE-UP MECHANISMS**

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:** 16 h.

**NCH - Non-class hours:** 10 h.

**TH - Total hours:** 26 h.

### **1RGB192 (1 sem)**

#### **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

8 h.

8 h.

16 h.

Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning

6 h.

6 h.

#### **EVALUATION SYSTEM**

**W**

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

50%

Concept maps / Diagrams

50%

#### **MAKE-UP MECHANISMS**

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:** 14 h.

**NCH - Non-class hours:** 8 h.

**TH - Total hours:** 22 h.

### **1RGB191 (1 sem)**

#### **LEARNING ACTIVITIES**

**CH**

**NCH**

**TH**

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.

Seminars, debates and/or workshops to deepen and/or share experiences.

4 h.

4 h.

Concept mapping

4 h.

9 h.

13 h.

#### **EVALUATION SYSTEM**

**W**

Self-assessment

12,5%

Co-assessment

12,5%

Concept maps / Diagrams

50%

Observation (technical capacity, attitude and participation)

25%

#### **MAKE-UP MECHANISMS**

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:** 20 h.

**NCH - Non-class hours:** 12 h.

**TH - Total hours:** 32 h.

### **1RGB194 (1 sem)**

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		12 h.	10 h.	22 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects		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%	Observation (technical capacity, attitude and participation)		
<b>CH - Class hours:</b> 16 h.				
<b>NCH - Non-class hours:</b> 10 h.				
<b>TH - Total hours:</b> 26 h.				

## CONTENTS

-Mentoring program-Teamwork-Learning to learn-Written documentation-Oral presentation-PBL methodology-Pro file of the Biomedical Engineer

## LEARNING RESOURCES AND BIBLIOGRAPHY

<b>Learning resources</b>	<b>Bibliography</b>
[!] <i>Apuntes de la asignatura</i>	(No bibliography)
[!] <i>Plataforma Moodle</i>	
[!] <i>Charlas de ponentes externos</i>	
[!] <i>Proyección de videos</i>	