

## [GBN201] HOSPITAL ENGINEERING

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN BIOMEDICAL ENGINEERING		<b>Subject</b>	?
<b>Semester</b>	2	<b>Course</b>	3	<b>Mention / Field of specialisation</b>
<b>Character</b>	COMPULSORY		<b>Language</b>	CASTELLANO
<b>Plan</b>	2022	<b>Modality</b>	Face-to-face	<b>Total hours</b>
<b>Credits</b>	4,5	<b>Hours/week</b>	3.92	70.5 class hours + 42 non-class hours = <b>112.5 total hours</b>

### 2030 AGENDA GOALS



### PROFESSORS

AZPI-MIRANDA SAROBE, IÑIGO  
DOK-BEITIALARRANGOITIA OLABIDE, MAIDER

### REQUIRED PREVIOUS KNOWLEDGE

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

### LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
<b>GBR307</b> - To manage hospital facilities taking into account aspects such as security, communications, efficiency, etc., and identifying the methods and tools to use for continuous improvement		x		3,78
<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		0,4
<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
<b>Total:</b>				<b>4,5</b>

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

### SECONDARY LEARNING RESULTS

#### 2RGB393 (2 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	2,5 h.	1,5 h.	4 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:** 2,5 h.

**NCH - Non-class hours:** 1,5 h.

**TH - Total hours:** 4 h.

#### RGB317 [!] *Conoce y comprende las infraestructuras sanitarias, así como los servicios y unidades del hospital*

#### LEARNING ACTIVITIES

	CH	NCH	TH
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	15 h.	10 h.	25 h.

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects 20 h. 11,25 h. 31,25 h.

**EVALUATION SYSTEM**

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

**W**

100%

**MAKE-UP MECHANISMS**

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

**CH - Class hours:** 35 h.

**NCH - Non-class hours:** 21,25 h.

**TH - Total hours:** 56,25 h.

**2RGB391 (2 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**

2 h.

**NCH**

1 h.

**TH**

3 h.

**EVALUATION SYSTEM**

Self-assessment

**W**

25%

Co-assessment

25%

Observation (technical capacity, attitude and participation)

50%

**MAKE-UP MECHANISMS**

Observation (technical capacity, attitude and participation)

**CH - Class hours:** 2 h.

**NCH - Non-class hours:** 1 h.

**TH - Total hours:** 3 h.

**RGB318 [!]** *Conoce y comprende diferentes los aspectos característicos de la instalaciones hospitalarias, como por ejemplo, comunicaciones, gestión de residuos, sostenibilidad, ...*

**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**

15 h.

**NCH**

14,25 h.

**TH**

29,25 h.

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

9 h.

9 h.

**EVALUATION SYSTEM**

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

**W**

40%

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

60%

**MAKE-UP MECHANISMS**

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

**CH - Class hours:** 24 h.

**NCH - Non-class hours:** 14,25 h.

**TH - Total hours:** 38,25 h.

**2RGB392 (2 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**

2 h.

**NCH**

1 h.

**TH**

3 h.

<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	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)
<b>CH - Class hours:</b> 2 h. <b>NCH - Non-class hours:</b> 1 h. <b>TH - Total hours:</b> 3 h.		

<b>2RGB390 (2 sem)</b>			
<b>LEARNING ACTIVITIES</b>	<b>CH</b>	<b>NCH</b>	<b>TH</b>
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	2,5 h.	1,5 h.	4 h.
<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>	
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	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)	
<b>CH - Class hours:</b> 2,5 h. <b>NCH - Non-class hours:</b> 1,5 h. <b>TH - Total hours:</b> 4 h.			

<b>2RGB394 (2 sem)</b>			
<b>LEARNING ACTIVITIES</b>	<b>CH</b>	<b>NCH</b>	<b>TH</b>
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	2,5 h.	1,5 h.	4 h.
<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>	
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> 2,5 h. <b>NCH - Non-class hours:</b> 1,5 h. <b>TH - Total hours:</b> 4 h.			

## CONTENTS

[!]

1. Salud en el mundo
2. Políticas Sanitarias y Organización de los Sistemas Sanitarios
  - 2.1 Sistema Nacional de Salud
  - 2.2 Sistema vasco de salud - Osakidetza
3. Instalaciones hospitalarias
4. Gestión y coste hospitalario

## LEARNING RESOURCES AND BIBLIOGRAPHY

### Learning resources

- [!] *Apuntes de la asignatura*
- [!] *Artículos de carácter técnico*
- [!] *Charlas de ponentes externos*
- [!] *Consultas en páginas web relacionadas con el tema*
- [!] *Presentaciones en clase*
- [!] *Plataforma Moodle*

### Bibliography

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