

[GBE104] GENERAL PATHOLOGY

GENERAL INFORMATION

Studies	DEGREE IN BIOMEDICAL ENGINEERING		Subject	Health Sciences
Semester	2	Course	3	Mention / Field of specialisation
Character	COMPULSORY		Language	EUSKARA
Plan	2017	Modality	Adapted Face-to-face	Total hours
Credits	6	Hours/week	5.22	94 class hours + 56 non-class hours = 150 total hours

PROFESSORS

AZPI-MENDIZABAL, LEIRE

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
HUMAN ANATOMY PHYSIOLOGY	(No previous knowledge required)

SKILLS

VERIFICA SKILLS

SPECIFIC

GBCE27 - To know and understand the fundamentals of various pathologies

GENERAL

GBCG3 - To build on basic concepts and technologies to expand knowledge of new theories and methods, and to acquire flexibility to adapt to new situations.

CROSS

GBCTR2 - To be able to do their job in cooperative, participatory environments, with awareness of social responsibility.

BASIC

G_CB2 - To be able to apply knowledge to occupational or professional tasks; have the necessary skills to pose and defend arguments, and to solve problems within their field of study

LEARNING RESULTS

RG301 Assumes responsibilities in the work team, organizing and planning the tasks to be developed, facing the contingencies and encouraging the participation of its members.

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

4 h.

NCH

2 h.

TH

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

(No mechanisms)

CH - Class hours: 4 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 6 h.

RG302 Analyze the intervening variables in the problem and propose actions for a stable situation.

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

3 h.

NCH

2 h.

TH

5 h.

EVALUATION SYSTEM

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

W

100%

MAKE-UP MECHANISMS

(No mechanisms)

exercises, term projects, challenges and problems

CH - Class hours: 3 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 5 h.

RG304 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in writing.

LEARNING ACTIVITIES

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
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.	2 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

(No mechanisms)

CH - Class hours: 4 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 6 h.

RG305 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in spoken form.

LEARNING ACTIVITIES

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
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.	2 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

(No mechanisms)

CH - Class hours: 4 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 6 h.

RGB315 [!] *Conoce y comprende las causas y mecanismos de la lesión y muerte celular*

LEARNING ACTIVITIES

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
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.	4 h.	12 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints		7,25 h.	7,25 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	15 h.		15 h.
Tutoring sessions and monitoring of training activities		3 h.	3 h.

EVALUATION SYSTEM

W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

30%

MAKE-UP MECHANISMS

Individual written and oral tests to assess technical skills of the subject

exercises, term projects, challenges and problems
 Individual written and/or oral tests or individual coding/programming tests

70%

CH - Class hours: 23 h.

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

TH - Total hours: 37,25 h.

RGB316 [!] *Conoce las diferentes patologías y trastornos, y es capaz de clasificarlos en base a diferentes parámetros*

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

14 h.

6 h.

20 h.

Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints

7,5 h.

7,5 h.

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

26 h.

26 h.

Tutoring sessions and monitoring of training activities

10 h.

10 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

30%

Individual written and oral tests to assess technical skills of the subject

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

70%

CH - Class hours: 40 h.

NCH - Non-class hours: 23,5 h.

TH - Total hours: 63,5 h.

RGB317 [!] *Conoce los principios básicos de la inmunopatología*

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

5 h.

3 h.

8 h.

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

3 h.

3 h.

Carrying out exercises and solving problems individually and/or in teams

8 h.

7,25 h.

15,25 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

27%

Individual written and oral tests to assess technical skills of the subject

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

73%

CH - Class hours: 16 h.

NCH - Non-class hours: 10,25 h.

TH - Total hours: 26,25 h.

CONTENTS

SECTION 1: Basics

- The concept of disease

- Agents that cause the disease.

- Biology and cell (injury and cell death)

- Molecular pathology

SECTION 2: Pathophysiology

- Pathophysiology of fever

- Pathophysiology of inflammation

- Pathophysiology of edema

SECTION 3: Diseases - Heart disease

- Digestive disorders - Diseases of the nervous system

- Complex diseases

SECTION 4: Tumor Pathology

- Basic concepts - Molecular basis

- Angiogenesis and metastasis

- Hereditary cancer

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Moodle Platform
Subject notes
Class presentations

Bibliography

Sisinio de Castro. Manual de Patología General. Pérez Arellano, J.L.
Ed. Elsevier Masson, 7ª edición, 2013.
Robbins y Cotran. Patología estructural y funcional. Kumar, Abbas &
Aster. Ed. Elsevier Masson, 9ª ed. 2017.