

Degree	Type	Year
2502442 Medicine	OT	3

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

Mian basic human physiology knowlege is needed. Maximal students: 80.

Objectives and Contextualisation

Applied Physiology " Fisiologia Aplicada " is a subject whose main purpose is to introduce the student in the integrative knowledge of the different organic systems of the body. Basically to understand the whole body response to different physiological status, such as bes rest, circadian rhythm, exercise, different diets, 0 gravity, high altitude, ...

Competences

- Use information and communication technologies in professional practice.

Learning Outcomes

1. Use information and communication technologies in professional practice.

Content

immunologic and defensive lung functions

air pollution and health

Lung and bronchial inflammation

Respiratory failure

Chronophysiology

Heart electrophysiology

Endothelial function. Coronary circulation

Adaptation to acute and chronic exercise

Physiology of pregnancy

General and cardiovascular aging

Cardiovascular monitoring

Adaptative physiology in altitude

Stress test

Bed Resting. Physiology of zero gravity

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
ASISTENCIAL CLINICAL PRACTICES (PCAh)	15	0.6	
Theoretical lessons	15	0.6	
Type: Autonomous			
Paper writing	10	0.4	1
Personal learning, article reading	32	1.28	1

Theoretical lectures:

Main concepts of the different subjects will be explained..

Laboratory classes:

Mainly clinical laboratory in-hospital sessions to understand and apply the theoretical concepts.

Tutoriasl:

Supervised practical problems

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation by means of theoretical and practical cases (20%) and practical questionnaire (10%)	30%	1	0.04	1
Multiple choice examination	70%	2	0.08	1

Acquired knowledge will be evaluated:

- Multiple choice test (70% of final score)
- Continous evaluation though cases (20% of final score)
- Practical laboratory knowledge (10% of final score).

All 3 evaluations are needed.

Recovery examination will be offered if needed.

This subject does not provide the single assessment system.

Bibliography

BERNE R, LEVY M. Fisiología (4ª ed.). Elsevier-Mosby, 2009.

- GUYTON AC, HALL JE. Tratado de Fisiología Médica (12ª ed.). Elsevier-Saunders, 2009.

- TRESGUERRES JAF. Fisiología Humana (4ª ed.). Mc Graw Hill-Interamericana, 2010.

Software

NO programari needed

Language list

Information on the teaching languages can be checked on the CONTENTS section of the guide.

PROVISIONAL