

Applied Physiology

Code: 102916
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	3	0

Contact

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Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

Teachers

Imanol Otaegui Irurueta

Gerard Oristrell Santamaria

Berta Saez Gimenez

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

Adaptive physiology in altitude

Stress test

Bed Resting. Physiology of zero gravity

Methodology

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.

Tutorials:

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.

Activities

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 learnig, article reading	32	1.28	1

Assessment

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.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation by means of theoretical and practical cases	20%	1	0.04	1
Multiple choice examination	80%	2	0.08	1

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