

Academic Year/course: 2021/22

## 25651 - General Intervention Procedures in Physiotherapy II

### Syllabus Information

---

**Academic Year:** 2021/22

**Subject:** 25651 - General Intervention Procedures in Physiotherapy II

**Faculty / School:** 127 - Facultad de Ciencias de la Salud

**Degree:** 605 - Degree in Physiotherapy

**ECTS:** 6.0

**Year:** 2

**Semester:** Second semester

**Subject Type:** Compulsory

**Module:**

## 1. General information

### 1.1. Aims of the course

The subject and its expected results respond to the following approaches and objectives:

The general objective of this subject is that the student, from the knowledge of its contents, is able to explain and apply the theoretical and methodological foundations of the different physiotherapeutic procedures and techniques in all processes where electrotherapy, magnetotherapy, vibrotherapy, phototherapy, pressotherapy, ergotherapy and those derived from other physical agents are indicated.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning outcomes of the subject provides training and competence to contribute to some extent to their achievement.

### 1.2. Context and importance of this course in the degree

This subject is related to subjects such as Human Anatomy and Physiology taught in the first year of the Degree in Physiotherapy.

It is a basic subject in the second four-month period of the second year in which some of the general methods of intervention in physiotherapy whose clinical application will be addressed in the subject are dealt with.

Its purpose is twofold: it aims to introduce the student to the scientific/technical knowledge of the profession and, on the other hand, it aims to bring together certain competencies with subjects from subsequent years.

### 1.3. Recommendations to take this course

Due to the important theoretical-practical content, the main aim of which is to provide a scientific basis for the practice and knowledge of the different existing physical agents, both for the treatment of the different pathologies and for diagnosis, it is advisable to acquire and continuously review the skills in anatomy and physiology with the ultimate aim of achieving a more complete approximation of the student to the complete knowledge of their profession, recommending personal study from the beginning of the course to achieve these aims, as this is the essential means of achieving the planned learning results.

## 2. Learning goals

### 2.1. Competences

On passing the course, the student will be more competent to:

1. Apply the basic knowledge of the different physical agents in Physiotherapy.
2. Therapeutically apply the theoretical and practical knowledge of the different physical agents as coadjuvant therapy in Physiotherapy, in all pathologies or processes that require it through appropriate protocols, as related and complementary therapeutics.
3. Apply the appropriate knowledge, techniques, apparatus and accessories in pathological processes or in sport.

### 2.2. Learning goals

In order to pass this subject, the student must demonstrate the following results:

- Know the fundamentals of the different physical agents in Physiotherapy.
- Know how to therapeutically apply the theoretical and practical knowledge of the different physical agents as adjuvant therapy in Physiotherapy, in all pathologies or processes that require it through appropriate protocols, as related and complementary therapy.
- Know how to apply the appropriate knowledge, techniques, apparatus and accessories in pathological processes or in sport.
- Know the precautions/contraindications of the application of the different physical agents in physiotherapy.

### 2.3. Importance of learning goals

They will enable the student to be better prepared to understand the theoretical and methodological foundations of the applications of the different physical agents with a bio-psycho-social vision of the human being and, therefore, to be better able to start planning professional action in situations of illness/physical disability throughout the life cycle of the person.

## 3. Assessment (1st and 2nd call)

### 3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that he/she has achieved the expected learning outcomes through the following assessment activities:

Follow-up assessment of the completion of practical work placements:

Compulsory attendance and active and efficient participation in the theoretical-practical seminars, evaluated with a compulsory system to access the official final exam: the student must demonstrate that he/she knows how to apply the theoretical bases of the subject in the resolution of questions or practical assumptions, with precise, clear and argued language.

Oral practical exam if the student does not pass this follow-up assessment of the practical work.

Passing it is a prerequisite for taking the final theory exam.

Written exams:

Final theory exam of the whole course in the official exam session in June.

This written exam will be in the form of a test, which will consist of 30 questions, and a minimum of 15 must be answered correctly in order to pass the exam.

The time allowed for the exam will be 25 minutes.

An oral exam will be allowed if someone expressly requests it.

Assignments:

Presentation of an individual work on the different practices carried out in the Laboratory, of free extension in DIN A4, double-spaced, in Arial 12 font, with an updated bibliography at the end of the text. The presentation, originality, own intervention and mastery of the subject will be valued. (The assessment will be 15% of the final mark).

Power Point presentation and defence of a clinical case in small groups (maximum 3 students).

The speaker will be chosen at random from among the members of the group on the day of the presentation. (The evaluation will be 25% of the final grade).

Attendance and active and efficient participation:

Students must demonstrate that they know how to apply the theoretical bases of the subject in the resolution of questions or practical assumptions, with precise, clear and argued language.

Passing the course is a prerequisite for taking the final theory exam.

Assessment and grading system

The final grade for the course is weighted as follows:

20% follow-up evaluation of the practical work. In order to pass the evaluation, students must attend and pass at least 80% of the practical classes, seminars and laboratory.

15% the score for the individual work or works.

25% marks for the group work (presentation and defence).

40% the mark for the final exam of the whole course.

Grading system in accordance with current legislation:

0.0-4.9 "Suspenso"

5.0-6.9 "Aprobado"

7-8.9 "Notable"

9-10 "Sobresaliente"

In the case of multiple candidates "Matrícula de Honor", an optional final examination will be held.

The assessment tests will be carried out in classroom mode if the situation permits. If the conditions change, and if instructions are received from the academic authorities, the exams will be held in distance mode using the online resources of the University of Zaragoza, which will be notified with due notice.

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

The learning process designed for this subject is based on the following:

A combination of theoretical classes in a large group, seminars with the presentation of clinical cases and practical classes in small groups, the completion of an individual work on the practicals and seminars, and another presented and defended in a group. Special importance will be given to personal study.

### 4.2. Learning tasks

**Theory.** 10 hours

Explain ageing and guidance for personal study of the different contents of the course, orienting it towards the acquisition of competences and learning results. All channelling, guidance and interaction resources will be used and support will be provided by means of different bibliographic and audiovisual aids.

**Theory-practical seminars and practical classes.** 56 hours

Presentation in four groups supervised and directed by the teacher where the practical application of the techniques of the subject as well as so that they can be applied to clinical cases will be carried out.

**Personal study.**

From the rest of the activities indicated and as learning outcomes, the student must take responsibility in the creation of schemes and structured work programmes and in the context of the time used for other subjects. It must represent the transition from motivation, fostered by the learning activities described above, to the autonomous exercise of will

### 4.3. Syllabus

The course will address the following topics:

#### **Lectures:**

Topic 1. Introduction and concepts.

Topic 2. Analgesia with low frequency.

Topic 3. Direct Current. Galvanism and Iontophoresis.

Topic 4. Analgesia with medium frequency. Interferential.

Topic 5. Excitomotor effect

Topic 6. Scars and Edema.

Topic 7. Ultrasonotherapy.

Topic 8. High frequency.

Topic 9. Phototherapy.

Topic 10. Magnetotherapy.

### 4.4. Course planning and calendar

Class timetables and exam dates are published on the notice board and the website of the Faculty of Health Sciences.

The planned training activities will be carried out in classroom mode in the classrooms and rooms designated by the Centre.

If the conditions change, and if instructions are received from the academic authorities, the activities will be modified and adapted to be carried out in non-classroom mode using the online resources of the University of Zaragoza, which will be notified with due notice.

#### **4.5. Bibliography and recommended resources**

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=25651>