

## BSc in Physiotherapy

**COURSE TITLE:** Professional Workshop - *Research Methodology in Physiotherapy*

**NUMBER OF ECTS CREDITS:** 1

**SSD:** MED/48

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### PREREQUISITES

Basic notions of Medical Statistics.

### LEARNING OBJECTIVES

Knowledge of Evidence-Based Clinical Practice and its application in clinical practice are essential objectives.

These objectives will be achieved through lectures and exercises (reading of articles and discussion of clinical cases) intended to facilitate learning and improve the ability to address and resolve the main questions in this field.

### LEARNING OUTCOMES

#### Knowledge and understanding

At the end of this course the student should be able to:

- Know the principles of Evidence-Based Practice
- Know how to correctly carry out a bibliographic search
- Know the main study designs
- Acquire knowledge for a critical evaluation and a correct interpretation of the efficacy tests

#### Applying knowledge and understanding

At the end of the course the student will be able to:

- Use the acquired knowledge to implement Evidence-Based Practice;

#### Communication Skills

At the end of the course, the student should know:

- Use specific scientific terminology appropriately.

#### Making judgements

At the end of the course, the student should know:

- Perform critical appraisal of scientific studies

### COURSE SYLLABUS

- Introduction to Evidence-Based Practice
- Bibliographic research
- Anatomy and physiology of clinical research
- The randomized clinical trial
- Systematic review and meta-analysis

### **COURSE STRUCTURE**

The Course is structured in 25 hours of frontal teaching, divided into lessons of 2, 4 or 5 hours according to the academic calendar.

### **COURSE GRADE DETERMINATION**

The verification of the preparation of the students will take place through an oral test. During the oral examination the Teacher will assess the ability of the Student to apply the knowledge. The following will also be assessed: making judgments, communication skills (communication skills) and learning skills (learning skills) as indicated in the Dublin descriptors.

### **READING MATERIALS**

Handouts provided by the teacher

Herbert, R., Jamtvedt, G., Hagen, K. B., & Mead, J. (2011). Practical evidence-based physiotherapy. Elsevier Health Sciences.