

## 25603 - Research methodology

### Syllabus Information

**Academic Year:** 2019/20

**Subject:** 25603 - Research methodology

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

**Degree:** 275 - Degree in Physiotherapy

**ECTS:** 6.0

**Year:** 1

**Semester:** First Four-month period

**Subject Type:** Basic Education

**Module:** ---

### 1.General information

#### 1.1.Aims of the course

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

#### 1.3.Recommendations to take this course

### 2.Learning goals

#### 2.1.Competences

#### 2.2.Learning goals

#### 2.3.Importance of learning goals

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

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

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

#### 4.1.Methodological overview

#### 4.2.Learning tasks

#### 4.3.Syllabus

The course will address the following topics:

- Topic 1: Introduction to research methodology: Statistics for the Health Sciences.
- Topic 2: Basic terminology.
- Topic 3: One-dimensional descriptive statistics (I): frequency distributions and graphs.
- Topic 4: One-dimensional descriptive statistics (II): measures of central tendency, position, variability, skewness, and kurtosis. Box and whisker plot.
- Topic 5: The normal approximation for data.
- Topic 6: Parametric statistical inference (I): hypothesis tests.
- Topic 7: Parametric statistical inference (II): confidence intervals.
- Topic 8: Nonparametric statistical inference.
- Topic 9: Two-dimensional statistics. Contingency tables.

**4.4.Course planning and calendar**

**4.5.Bibliography and recommended resources**