

## 60853 - Applied research methodology

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	549 - Master's in Evaluation and Physical Training for Health
<b>ECTS</b>	6.0
<b>Course</b>	1
<b>Period</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.Basic info**

#### **1.1.Recommendations to take this course**

#### **1.2.Activities and key dates for the course**

### **2.Initiation**

#### **2.1.Learning outcomes that define the subject**

#### **2.2.Introduction**

### **3.Context and competences**

#### **3.1.Goals**

#### **3.2.Context and meaning of the subject in the degree**

#### **3.3.Competences**

#### **3.4.Importance of learning outcomes**

### **4.Evaluation**

### **5.Activities and resources**

#### **5.1.General methodological presentation**

#### **5.2.Learning activities**

#### **5.3.Program**

- 1: Methodology of scientific research:
- The nature of the investigation.
  - Methods and research designs.
  - Planning the research process.

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2: Experimental methodology in Physical Activity, Sport and Health:

- The experiment. The experimental control.
- Experimental Designs: Inter and intra-group, univariate and factorials.

3: quasi-experimental methodology in Physical Activity, Sport and Health:

- Pre-pilot and quasi-experimental designs.
- N1 designs.
- Time series designs.

4: Selective-correlational Methodology in Physical Activity, Sport and Health:

- Sampling and sampling rates in the sciences of physical activity, sport and health.
- Designer survey in the sciences of physical activity, sport and health.
- Questionnaires and surveys in the sciences of physical activity, sport and health.

5: observational designs applied to research in the sciences of Physical Activity, Sport and Health:

- Observational Methodology. Basics and Applications.
- Observational Designs.
- Registration and data coding instruments of observation and recording instruments.
- Types of observational data analysis: Sequential Analysis; obtaining t-patterns; technique Polar coordinates.

6: Qualitative methodology in science Physical Activity, Sport and Health:

- Methods in qualitative research in the sciences of physical activity and sport.
- Phases of qualitative research.
- Techniques of qualitative research.
- Analysis of qualitative data.
- Quality control in qualitative research.

7: Epidemiologic Studies:

- Experimental:  
Cohort studies or follow-up

8: documentaries sources Physical Activity,

9: Writing scientific texts: - Characteristics of scientific texts.- The papers.- writing doctoral thesis, oral communications scientific presentación.

10: Development of projects and reports in quantitative research and qualitative.

### 5.4.Planning and scheduling

### 5.5.Bibliography and recommended resources