

## 68401 - Scientific method

### Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	530 - Master's in Introduction to Medical Research 353 - Master's in Introduction to Medical Research
ECTS	6.0
Course	---
Period	Indeterminate
Subject Type	Compulsory
Module	---

### 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

##### I. Scientific research and development and innovation (R+D+I)

1. Science & Technology Policy: a historical development
2. Biomedical research programs in Aragon
3. The curriculum vitae (CV) for research activities

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4. Research Methodology: Phases of the process
5. Critical reading a medical journal article
6. Ethical and legal implications of medical research
7. Types of research designs: quantitative and qualitative studies
8. Scientific activities indicators

### **II. Medical documentation and information**

9. Databases Information Retrieval System (SRI)
10. Bibliometric analysis: methodology and results
11. International databases: PubMed, Embase
13. Hispanic databases: IME, ISOC IBECS, Latindex
14. Cochrane for Evidence-Based Medicine (MBE)
15. Databases of scientific impact indicators: WOS, JCR

### **5.4.Planning and scheduling**

### **5.5.Bibliography and recommended resources**