

## 63002 - Bibliographic resources and its application to quality assurance of analytical methods

### Información del Plan Docente

Academic Year	2017/18
Faculty / School	105 - Facultad de Veterinaria
Degree	566 - Master's in Food Quality, Safety and Technology
ECTS	6.0
Year	1
Semester	First semester
Subject Type	Compulsory
Module	---

### 1.General information

#### 1.1.Introduction

#### 1.2.Recommendations to take this course

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

#### 1.4.Activities and key dates

### 2.Learning goals

#### 2.1.Learning goals

#### 2.2.Importance of learning goals

### 3.Aims of the course and competences

#### 3.1.Aims of the course

#### 3.2.Competences

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

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

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

#### 5.1.Methodological overview

The methodology followed in this course combines participatory lectures with practice sessions (solving of case studies) in the computer room. Audiovisual material (PowerPoint presentation) is used to explain the concepts in a clearer way, and practice and theory are mixed in order to consolidate and apply those concepts.

The students will be given information about acceptance criteria, reference materials and/or calls for intercomparison exercises. All the time, students will be under the direct supervision of the teacher.

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Students must present a written and oral assignment on validation of an analytical method. It will be made taking into account the information sources. The presentation of practical reports, the development of the written assignment, and its oral presentation, shows the degree of learning of the student.

### 5.2.Learning tasks

The course includes the following learning tasks:

- Lectures and practice sessions, as well as case solving activities and exercise discussions will be done.
- Individual assignment. With different sources of information, students will elaborate an individual assignment on the analytes and methodologies.
- Group assignment. In groups, students will prepare a project based on the study and discussion of validation parameters, using scientific articles or through analytical methodologies provided by the teacher. For doing so, students will use the scientific and legal information sources learned in the course. It will be presented orally and there will be a discussion session with the rest of the students and teachers.
- Reports. Students will prepare and submit written reports on the solving of case studies carried out in the practice sessions.

### 5.3.Syllabus

The course will address the following topics:

#### Lectures (22 hours)

- Introduction to the course.
- Importance of the reliability of the analytical results.
- Scientific and legal information sources.
- Good laboratory practices.
- Validation parameters. Acceptance criteria established by international institutions.
- Reference materials and interlaboratory exercises.

**Practice sessions** (38 hours of face-to-face classes and 90 hours of autonomous work &mdash;studying, preparing written reports, solving case studies, and the validation assignment)

- Looking up different information sources for the preparation of the written report and oral presentation.
- Learning to use a reference manager web-based program (Refworks).
- Work standard protocols in the laboratory.

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- Solving of case studies in the computer room.
- Presentation and defense of the report.

### **5.4.Course planning and calendar**

Further information concerning the timetable, classroom, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the website of the Faculty of Veterinary (<http://veterinaria.unizar.es>).

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