

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

### **Información del Plan Docente**

<b>Academic Year</b>	2018/19
<b>Subject</b>	63002 - Bibliographic resources and its application to quality assurance of analytical methods
<b>Faculty / School</b>	105 - Facultad de Veterinaria
<b>Degree</b>	566 - Master's in Food Quality, Safety and Technology
<b>ECTS</b>	6.0
<b>Year</b>	1
<b>Semester</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **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**

In this subject participatory lectures are combined with theoretical-practical and resolution of case studies sessions in computer classroom.

Audiovisual material (PowerPoint presentation) is used to show the concepts presented more clear, and the practical sessions are combined with theoretical sessions in order to consolidate and apply the concepts. The students will have documentation provided by teachers and web pages to find information about acceptance criteria, reference materials and/or calls for intercomparison exercises. All students will be under the direct supervision of the teacher.

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By consulting different sources of information, the student must perform the written work on the analytes and methodologies of analysis, as well as to study and to evaluate scientific articles on validation of analytical methods. In addition to the presentation of the exercises and practical reports, the development of the written work and the evaluation test on the knowledge of validation of analytical methodologies would demonstrate the degree of learning in the subject by the student.

### 4.2. Learning tasks

The course includes the following learning tasks:

- Lectures and practical sessions, as well as case solving activities and exercise discussions will be done.
- Students will prepare and submit written reports on the case studies carried out in the practical sessions.
- With different sources of information, students will elaborate an individual work on the analytes and methodologies.
- Study and evaluation of scientific articles related to the subject.
- Supervision and monitoring of the work done by the students.
- Written test on the knowledge of validation of analytical methodologies at the end of the subject.

### 4.3. Syllabus

The course will address the following topics:

#### 1: Theoretical sessions. 22 hours of face classes

- Introduction to the subject.
- 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.

#### 2: Practical sessions. 38 hours of face classes and 90 non-contact hours (study, performance of written reports on the resolution of case studies, evaluation and discussion of scientific articles on validation).

- The consultation of different sources of information for the performance of the written work and oral presentation.
- Learning a bibliography manager web-based program (Refworks).
- Laboratory standard protocols and good laboratory practices
- Resolution of case studies in computer classroom

### 4.4. Course planning and calendar

Dates and key milestones of the subject are described in detail on the website of the Veterinary Medicine Faculty (<http://veterinaria.unizar.es>).

### 4.5. Bibliography and recommended resources

The bibliography and recommended resources are exposed in the different working sessions with the students.