

## 63012 - Methodology for evaluation of food risks

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	105 - Facultad de Veterinaria
<b>Degree</b>	566 - Master's in Food Quality, Safety and Technology
<b>ECTS</b>	3.0
<b>Course</b>	1
<b>Period</b>	Second semester
<b>Subject Type</b>	Optional
<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**

La docencia teórica de esta asignatura va dirigida al conocimiento de la metodología para la evaluación de riesgos alimentarios. En las sesiones prácticas se trabajan con diferentes fuentes de información y herramientas para la evaluación de riesgos biológicos y químicos. Los alumnos las aplicarán para la resolución de casos prácticos, bajo la supervisión del profesor.

En la sesiones de presentación del trabajo se motivará la participación de los alumnos, instándoles a que realicen una

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interpretación crítica de los mismos.

### 5.2.Learning activities

1. Theoretical clases, where presents the fundamental concepts of risk analysis and methodology for assessment of biotic and abiotic hazard associated with food consumption. Databases and sources of information for the development of models of food risk assessment are also presented.
2. Practical session in which students apply the theoretical knowledge and search for information to solve cases and problems under the direct supervision of teachers, and the student presents a model of evaluation of a food hazard of biotic origin and abiotic origin
3. Teaching works, in which students, based on specialized literature and under the guidance of a teacher of the subject, prepare a paper on a risk assessment model applied to different real scenarios to facilitate decision-making in the food hazard management..
4. Seminars, each student or group of two students exposes the development of teaching work . In these sessions the participation of students will be promoted, urging them to make a critical interpretation of the findings derived from each exercise
5. Tutoring individual or group , by personal interview, about the methodology for the develop of risk assessment, and, if necessary, the resolution of any doubts on the subject raised by the student
6. Individual or group tutoring, mediante entrevista personal aunque puede no ser presencial, sobre la metodología para realizar los trabajos docentes de evaluación de riesgos, el seguimiento de éstos y, en su caso, la resolución de cualquier tipo de duda sobre la asignatura que plantee el estudiante.

### 5.3.Program

1:Theoretical sessions: 4 hours (sessions of 2 hour each)

1. Introduction to Risk Analysis. Assessment, management and communication of risk. Current status of risk assessment systems. Databases and information sources for the development of models of food risk assessment.
2. Biological hazardassessment methodology associated with food consumption. Application of epidemiology. Predictive microbiology. Risk calculation models.
3. Abiotic hazard assessment methodology associated with food consumption. qualitative and quantitative evaluation.

2:Practical sessions: 16 hours (sessions of 2 or 4 hours each)

1. Theoretical and practical presentation of a model risk assessment of biotic and abiotic hazard
2. Exercises identification and hazard characterization.

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3. Exercises estimation of exposure to hazards in food.
4. Exercises estimation of risk associated with food consumption.

### 3:Teaching works

The teacher proposed a work on risk assessment at individual or in groups of two students. Also, the students can choose or suggest a theme of interest. The work will be led by teachers of the subject. The work will be delivered to the professor in the manner and date set.

### 4:Seminars: 10 hours (session 2 or 4 hours each)

1. Each student presents the work done individually or in groups of two students during a time of 30 minutes.
2. Analysis and group discussion with other students and teachers, the results and conclusions of each risk assessment exercise.

## 5.4.Planning and scheduling

### Schedule of sessions and presentation of works

The master calendar and scheduling of the theoretical and practical sessions of the subject will appear throughout the month of September on the website of the Faculty of Veterinary Medicine, at the following address:  
<http://veterinaria.unizar.es/>

## 5.5.Bibliography and recommended resources

Typically, the literature of the academic year is kept updated and is consulted by the Library website (search [biblioteca.unizar.es](http://biblioteca.unizar.es) recommended bibliography).