

Academic Year/course: 2021/22

## 60560 - Food quality and safety

### Syllabus Information

**Academic Year:** 2021/22

**Subject:** 60560 - Calidad y seguridad alimentaria

**Faculty / School:** 201 - Escuela Politécnica Superior

**Degree:** 546 - Master in Agricultural Engineering

**ECTS:** 4.5

**Year:** 1

**Semester:** First semester

**Subject Type:** Compulsory

**Module:**

### 1. General information

### 2. Learning goals

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

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

#### 4.1. Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures (23 hours), cases and problems (12 hours), and other activities in relation with agri-food facilities or with quality management systems (9 hours).

#### 4.2. Learning tasks

The course includes the following learning tasks:

- **Lectures 2,3 ECTS** (23 hours). The material provided by the teacher will be available at the reprographic service and the virtual platform ADD (<http://add.unizar.es>). Students should complement the material by means of recommended resources or note-taking.
- **Cases and problems 1,2 ECTS** (12 hours). Assigned cases will be prepared by students under the supervision of the teacher. A part of the student's evaluation will include classroom participation in case discussions.
- **Other activities 1 ECTS** (10 hours). Visits to agro-food industries or similar activities.

#### 4.3. Syllabus

The course will address the following topics:

##### Lectures:

- Topic 1. Food Law Regulations
- Topic 2. Food Traceability
- Topic 3. Agri-food Laboratory
- Topic 4. ISO 17025. Application to an agri-food laboratory
- Topic 5. ISO 22000
- Topic 6. IFS Food Standard

Topic 7. BRC Global Standard for Food Safety  
 Topic 8. Food certifications. Figures and quality brands in the European Union

**Case studies:**

- Food safety regulations. Search and synthesis of information about food safety
- Labeling and traceability of food. How to read food labels
- Implementation of food safety regulations to a specific case

**4.4. Course planning and calendar**

Provisional course planning

Week	Lectures	Problems and cases	Activities
1	3 hours		
2	3 hours		
3	3 hours		
4	3 hours		
5	3 hours		
6	3 hours		
7	3 hours		
8	3 hours		
9		3 hours	
10		3 hours	
11		3 hours	
12		3 hours	
13			3 hours
14			3 hours
15			3 hours
<b>TOTAL</b>	<b>23</b>	<b>12</b>	<b>9</b>

**4.5. Bibliography and recommended resources**

- BB** Bolton, Andrew. *Sistemas de gestión de la calidad en la industria alimentaria : guía para ISO 9001/2 / Andrew Bolton ; traducido por Luis M. Cintas Izarra. Zaragoza : Acribia, 2000*
- BB** Camisón Zornoza, César. *Gestión de la calidad : conceptos, enfoques, modelos y sistemas / César Camisón, Sonia Cruz, Tomas González. [reimp.]. Madrid : Pearson Educación, D.L. 2011*
- BB** Dorado Martín, Esperanza. *Trazabilidad y seguridad alimentaria : sistema APPCC / Esperanza Dorado Martín. Antequera : ExLibric, 2018*
- BB** Ferrandis-García Aparisi, Gloria. *Seguridad, higiene y gestión de la calidad alimentaria / Gloria Ferrandis-García Aparisi. 2ª ed. act. Madrid : Síntesis, D.L. 2019*
- BB** Losada Manosalvas, Samuel. *La gestión de la seguridad alimentaria / Samuel Losada Manosalvas. [1ª ed.]. Barcelona : Ariel : Escola de Prevenció i Seguretat Integral, UAB, 2001*
- BB** Martínez Monsalve, Isabel M. *Seguridad alimentaria : del campo a la mesa / Isabel M. Martínez Monsalve. Alcalá la Real (Jaén) : Formación Alcalá, 2019*
- BC** *La seguridad alimentaria del productor al consumidor / Foro Agrario. Madrid [etc.] : Mundi-Prensa, 2003*

- BC** Senlle, Andrés. Evaluar la gestión y la calidad : herramientas para la gestión de la calidad y los recursos humanos / Andrés Senlle. Barcelona : Gestión 2000, D.L. 2003
- BC** Serra Belenguer, Juan Antonio. Calidad y seguridad en el sector agroalimentario / J.A. Serra Belenguer, I. Fernández Segovia. València : Universitat Politècnica de València, 2010
- BC** Vilar Barrio, José Francisco. Cómo implantar y gestionar la calidad total / [José Francisco Vilar Barrio ; en colaboración con Fermín Gómez Fraile, Miguel Tejero Monzón]. Madrid : Fundación Confemetal, D.L. 1997

The updated recommended bibliography can be consulted in:  
<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=60560>