

**COURSE DATA****Data Subject**

<b>Code</b>	36384
<b>Name</b>	Quality management
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2022 - 2023

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1212 - Degree in Gastronomic Sciences	Faculty of Pharmacy and Food Sciences	3	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1212 - Degree in Gastronomic Sciences	24 - Gestión de calidad	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
FORERO ROSILLO, NICOLAS JOSE	105 - Business Administration 'Juan José Renau Piqueras'

**SUMMARY**

In this subject, which has a mandatory character in the Degree Gastronomic Sciences, is addressed the study of a way of managing organizations that has spread significantly in the last years: quality management. In many areas, as is the case with the ones occupied by organizations in the field of Gastronomic Sciences, quality management is not an option, an unavoidable requirement, given the levels required of these organizations in terms of security and Food quality.

In the development of this subject the different perspectives on quality are analyzed, how are they related to each other and what implications they have on companies; the different management approaches of quality, highlighting its main advantages and disadvantages, and available techniques that can be applied in each of them. Among the available techniques, special emphasis is placed on statistical control techniques, statistical quality tools, statistical process control, graphics of quality control, inspection, sampling and acceptance, as well as sampling plans.



Likewise, the Quality Management Systems are studied, especially the system of the Standard of ISO9001 Quality Management, as well as the EFQM Excellence Model and the self-evaluation based on said model. When analyzing these models and systems, emphasis is placed on the control of documentation, implementation and certification, as well as quality audits.

To broaden the study of quality management systems in the subject, we study the Environmental Management Systems: ISO14001 standard and EMAS European Regulation. As well as the agrifood quality standards: BRC (British Retail Council), IFS (International Food Standard), GLOBALGAP and FSSC2000 (Food Safety System Certification). We also analyze the denominations of quality in the European Union and of differentiated quality: Denomination of origin protected (PDO), Protected Geographical Indication (PGI), Traditional Specialty Guaranteed (TSG). As well as the quality marks. Collective marks and of guarantee of quality.

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

### Other requirements

## COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

### 1212 - Degree in Gastronomic Sciences

- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Have knowledge and understanding in the field of gastronomic sciences.
- Plan, order and channel activities in such a way that unforeseen events are avoided as much as possible, possible problems are foreseen and minimised, and solutions are anticipated.
- Adquirir la formación básica para formular hipótesis, recoger e interpretar la información para la resolución de problemas siguiendo el método científico y comprendiendo la importancia y las limitaciones del pensamiento científico.
- Ser capaz de trabajar en equipo y de organizar y planificar actividades, teniendo en cuenta, siempre, una perspectiva de género.
- Resolver tareas o realizar trabajos en el tiempo asignado para ello manteniendo la calidad del resultado.



- Elaborar y manejar los escritos, informes y procedimientos de actuación más idóneos para los problemas suscitados y utilizando un lenguaje no sexista.
- Saber aplicar esos conocimientos al mundo profesional, contribuyendo al desarrollo de los Derechos Humanos, de los principios democráticos, de los principios de igualdad entre mujeres y hombres, de solidaridad, de protección del medio ambiente y de fomento de la cultura de la paz con perspectiva de género.
- Understand the management of quality systems and processes.

## **LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)**

To know the basic concepts and tools of quality management in the field of Gastronomic Sciences.

## **DESCRIPTION OF CONTENTS**

### **1. Concept of Quality and dimensions that compose it**

- 1.1. The concept of quality
- 1.2. Proposal for a synthesis of the different quality concepts
- 1.3. Dimensions of product and service quality

### **2. Quality management: Concept and classic contributions**

- 2.1. Why is it important to manage quality? Quality, productivity and Competitiveness
- 2.2. Quality management concept
- 2.3. Control by inspection
- 2.4. QA
- 2.5. Limitations of these approaches
- 2.6. The economic dimension of quality: quality and non-quality costs

### **3. Techniques and methodologies for the control and improvement of processes**

- 3.1. Process concept and integrating elements
- 3.2. Techniques for the improvement of processes. Statistical control techniques.
- 3.3. Statistical tools of quality. Statistical processes control.
- 3.4. Control charts quality.
- 3.5 Inspection, sampling and acceptance. Sampling plans



#### **4. Quality assurance: basic concepts**

- 4.1. Emergence and consolidation of quality assurance
- 4.2. Basic characteristics and definition of quality assurance
- 4.3. Advantages and limitations of the approach

#### **5. Implementation of a quality assurance system. The ISO 9001 model and the systems integrated**

- 5.1. The norms of the ISO 9000 series
- 5.2. The model of ISO 9001 standards.
- 5.3. Phases in the implementation of a quality management system
- 5.4. The certification of the quality management system
- 5.5. Documentation control. Quality audits
- 5.6. The Model of the ISO 14001 standards and the EMAS Regulation
- 5.7. The integrated system of quality management - environmental management

#### **6. Total quality management (GCT): basic concepts**

- 6.1. Emergence and consolidation of the GCT
- 6.2. Principles and definition of this approach
- 6.3. Advantages and limitations of this approach

#### **7. Implementation of an advanced GCT system. The EFQM Model of Excellence in Management**

- 7.1. Models of quality awards: the EFQM Model of Excellence
- 7.2. Self-evaluation: concept, process, approaches and types
- 7.3. Phases of the implementation of a GCT system
- 7.4. Considerations for the implementation of a GCT system

#### **8. Agro-food quality standards**

- 8.1 Quality and safety in the agri-food sector
- 8.2 BRC quality standard (British Retail Council).
- 8.3 IFS quality standard (International Food Standard).
- 8.4 GLOBALGAP.
- 8.5 FSSC2000 (Food Safety System Certification).

#### **9. Quality Denominations in the European Union**

- 9.1 Differentiated quality and denominations of quality in the European Union
- 9.2 Protected Designation of Origin (PDO)
- 9.3 Protected Geographical Indication (PGI)
- 9.4 Guaranteed Traditional Specialty (TSG).
- 9.5 Quality marks. Law of marks. Collective marks and of guarantee of quality.



## WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	60,00	100
Development of group work	15,00	0
Development of individual work	15,00	0
Study and independent work	30,00	0
Preparing lectures	15,00	0
Preparation of practical classes and problem	15,00	0
<b>TOTAL</b>	<b>150,00</b>	

## TEACHING METHODOLOGY

Classes of theory.- Face-to-face classes for the presentation by the teachers of the concepts and most important contents of each subject in order that the student acquires knowledge related to the subject, enhancing participation.

Tutorials.- The students will attend them in small groups. In them, the teaching staff will value the learning process of the students in a globalized way, will solve the doubts that may have emerged throughout the classes, and will guide them on the most useful work methods to solve the problems that may arise.

Classroom practical classes: resolution of problems and cases.- In these classes the specific application of the knowledge that the students have acquired in the classes of theory. The resolution of problems will be strengthened with a critical spirit.

Study-preparation of seminars, classes and exams.- Hours of autonomous work destined to the reading and preparation of classes, exam preparation and the work to be presented in seminars.

## EVALUATION

Part A: Continuous evaluation, during the course, of the work of the students in the theory and practical classes in the classroom, as a result of the teacher's contact with the students in any of the sections of the learning process, as well as their involvement and active participation in the development of the subject (50% of the final grade).

In compliance with article 6.9 of the UV Assessment and Qualification Regulations, practical classes in the classroom are compulsory. It will be considered that the student has complied with the attendance if she has attended a minimum of 80% of the hours of these sessions and has adequately justified the impossibility of attending the remaining sessions.





The grade of the continuous evaluation will not be recoverable and will be kept for the two calls of the academic year.

The continuous evaluation values, the participation of the students in the classroom, as well as the works developed individually or in teams that require the search for additional information analysis (inside or outside the classroom), either for the resolution of cases, exercises, debates, and they are considered non-recoverable training activities, insofar as they try to develop and evaluate the skills of team information analysis, contrasting perspectives and approaches, argumentation of ideas, and oral and written communication.

Part B: Face-to-face written test on the contents taught (theory and practice) throughout the course. The possibility of partial written tests is contemplated. (50% of the final grade).

It is necessary to pass at least one of the parts and that the final grade is 5 or more, to obtain a positive evaluation and pass the subject.

## REFERENCES

### Basic

- Norma UNE-EN ISO 9001. Edición comparada: diferencias entre las versiones de 2008 y 2015 / AENOR (2016) 978-84-8143-917-5
- Guía para la aplicación de UNE-EN ISO 9001:2015 / José Antonio Gómez Martínez (2015) 978-84-8143-911-3
- Gestión de la calidad y diseño de organizaciones: teoría y estudio de casos / María D. Moreno-Luzón, Fernando J. Peris Bonet, Tomás González Cruz (2001) 978-84-2052-982-0

### Additional

- La calidad como variable estratégica y factor de costes / Olga Castro Pérez, Madrid: Club Gestión de Calidad (1996) 978-84-921-0234-9
- Gestión de la calidad y gestión medioambiental: Fundamentos, herramientas, normas ISO y relaciones / Claver, E Molina, J.F y Tarí, J.J. (2011) 978-84-368-2458-2
- Los siete instrumentos de la calidad total / Galgano, A (1995) 978-84-797-8230-6
- Calidad total. fundamentos e implantación / Llorens Montes, F.J. y Fuentes, M.M. (2000) 978-84-368-1412-5
- Control estadístico de la calidad / Montgomery, D. (2004) 978-96-818-6234-3