COURSE DATA

DATA SUBJECT

Code: 33998
Name: Documentation and Scientific Methodology
Cycle: Undergraduate Studies
ECTS Credits: 4.5
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1103 - Degree in Food Science and Technology	Facultat de Farmàcia i Ciències de l'alimentació	2	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1103 - Degree in Food Science and Technology	Scientific methodology and documentation	COMPULSORY

COORDINATION

RIUS LEIVA CRISTINA

SUMMARY

And all this in the context of certain societies and cultures very variable condition of the development of scientific activity over time.

. Likewise, the large expansion that has seen the Internet as a communication and dissemination of information made available to researchers and users a lot of resources and information sources, regardless of spatial boundaries and intermediariesThe aim of the course is to provide basic concepts and schemes to address the issue, closely related to the nutrition: anatomical dissection, animal experimentation and clinical trials. It is also dedicated to a specific scientific terminology along with a brief introduction to the various types of scientific instruments.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

Being an introductory course, no prerequisites are required apart from skills and knowledge provided by high school studies. However, it should be noted that the theoretical and practical seminars involve the use of a great deal of abstract thinking, adoption of a diachronic analysis and dealing with various societies and cultures, especially in the Western tradition. Moreover, it involves and the use of documentary sources and resources in electronic format, involving the formation of an acquisition of cri

COMPETENCES / LEARNING OUTCOMES

1103 - Degree in Food Science and Technology

Adquirir la formación básica para la actividad investigadora, siendo capaces de formular hipótesis, recoger e interpretar la información para la resolución de problemas siguiendo el método científico.

Capacidad de manejar el inglés como vehículo de comunicación científica con un nivel de competencia similar al B1 del Consejo de Europa.

Conocer, valorar críticamente y saber utilizar y aplicar las fuentes de información relacionadas con la tecnología de alimentos.

Realizar la comunicación de manera efectiva, tanto en forma oral como escrita, con las personas, los profesionales de la salud o de la industria y los medios de comunicación, sabiendo utilizar las tecnologías de la información y la comunicación.

DESCRIPTION OF CONTENTS

1. Information sources in Health Sciences

Introduction to scientific literature
Information sources and documental typologies
Bibliography: Vancouver citation style
Abstracting

2. Databases and Internet scientific resources

The University of Valencia library
Multidisciplinary databases
Health Sciences databases
Scientific resources in Internet
Open access to scientific literature in Health Sciences

General introduction: Science methods

3. Scientific methodology: measure systems, instruments and units

General introduction: Science methods Observation and experimentation
Measure systems
Units and magnitudes
Units conversion
Error calculation

4. Scientific terminology

cientific communication
Terminology origins
Main types of terms
Semantic problems
Translation
Terminologic normalization
Thesaurus

5. Animal experimentation and clinical trials

Animal experimentation
Clinical trials I: definition, aims and types. Placebo effect and sample selection
Clinical trials II: phases and legislation

6. Science, medicine and society

Science, medicine and technology
Evidence based medicine
Science, medicine and industry

7. Professions and scientific disciplines

Scientific disciplines
Biomedical professions
Scientific communication: transmission of scientific knowledge. Present defeats. Models, ways, and social agents involved in the popularization of science
Scientific article

8. Scientific revolutions

Scientific revolution concept
The structure of scientific revolution. Paradigms. Normal science
Scientific controversies: characters, spaces, motivations and closure

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	2,00
Theory	25,00
Seminar	10,00
Computer classroom practice	5,00
Total hours	**42,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	30,00
Independent study and work	10,50
Preparation of lessons	2,00
Preparation for assessment activities	25,00
Resolution of case studies	0,00
Total hours	**67,50**

TEACHING METHODOLOGY

The development of the course is structured around four types of activities in addition to research activities, preparation of classes and final exam: the lectures, practical classes in the classroom, computer practical classes and tutorials.

Lectures. Students must acquire basic knowledge on the agenda through self-study and attendance at the lectures. In these classes, the teacher will give an overview of the topic, have an impact on those key concepts for the understanding of it and answer any questions or issues. For individual study and preparation of the subject in depth, they provide students with a basic and additional bibliography, addresses, Internet and support material, as well as instructions and tips for handling information sources.

Practical lessons in the classroom. Activities that will be developed to complement the knowledge acquired in lectures, through exercises that will have to be presented individually in the terms established by the professors.

that should be presented individually to the completion of the course. A part of the lessons will be completed at the computer classroom. Attendance will be mandatory.

Tutorials. Students will come to them in small groups. In them, students will focus on methods of work more to improve learning achievement and completion of the activity book: supplementary activity. Attendance will be mandatory.

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EVALUATION

The assessment of student learning takes into account all the aspects outlined in the methodology section of this guide and will take place through the practical activities, the conceptual map and a final exam.

- **: There will be a final exam will represent 50% of the grade. It will be necessary to obtain a minimum score of 5 in the exam.**

• **Public presentation of work in Coordinated Seminars:** Students will conduct a research monograph, which will mean 10% of the final grade. Students are reminded of the obligation to attendance to the coordinated seminars. Failure to attend to them without justification will be a zero in the evaluation section of corresponding seminars.

•**Workbook and practice**: must be submitted at the end of the course and will involve **30%** of the total assessment. It will be necessary to obtain a minimum score of 5 in the workbook. Computer science practical sessions will be kept for only to the next year.

Evaluation of a Supplementary activity . (10%) The presentation of exercises, questions, activities, reading cards and other exercises submitted for evaluation have not been **made directly by the student** or coming from **direct copying** of other similar works will be considered sufficient reason to hold the course, the Apart from other possible actions of a discipline to be undertaken. **The presentation of the obligatory duties solely through the virtual classroom platform of the subject**, not accepting other means of presentation, and always in due time. **The delayed submission involves not pass the course in that call.**

The grades of work and approved tests for students who have not passed the entire subject in the first call of course, may be preserved until the next, but always within the same academic year.

Evidence of copying or plagiarism in any of the assessable tasks will result in failure to pass the subject and in appropriate disciplinary action being taken. Please note that, in accordance with article 13. d) of the Statute of the University Student (RD 1791/2010, of 30 December), it is the duty

of students to refrain from using or participating in dishonest means in assessment tests, assignments or university official documents.

In the event of fraudulent practices, the "Action Protocol for fraudulent practices at the University of Valencia" will be applied (ACGUV 123/2020):

https://www.uv.es/sgeneral/Protocols/C83sp.pdf

The activities of continuous assessment, which in this subject are practices, tutorials and seminars, are of MANDATORY ATTENDANCE and, therefore, NOT RECOVERABLE, in accordance

with the provisions of Article 6.5 of the Regulation of Evaluation and Qualification of the UV for Bachelor and Master degrees. If it is not possible to attend any of these activities for justified reasons, it must be communicated 10 days in advance. In this way, the person in charge of the subject may assign the student a session in another group

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