

**COURSE DATA****DATA SUBJECT****Code:** 33969**Name:** Documentation and Scientific Methodology**Cycle:** Undergraduate Studies**ECTS Credits:** 4.5**Academic year:** 2025-26**STUDY (S)**

Degree	Center	Acad. year	Period
1205 - Degree in Human Nutrition and Dietetics	Facultat de Farmàcia i Ciències de L'alimentació	2	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1205 - Degree in Human Nutrition and Dietetics	Scientific methodology and documentation	COMPULSORY

COORDINATION

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SUMMARY

What is usually called "scientific method" is a set of theoretical and experimental practices very diverse characteristics vary over time and space and across disciplines and various fields of science. Even within a single scientific discipline, there are diverse views on the best ways to get sufficiently used to produce new knowledge. Therefore, in this block use the expression "scientific methodology" to refer to the heterogeneous set of strategies, procedures, reasoning, experimental practices, observational methods, etc. following scientists in their investigations, which are developed in a variety of places (observatories, laboratories, geological sites, hospitals, factories, etc..), often with the help of scientific instruments of very different characteristics. And all this in the context of certain societies and cultures very variable condition of the development of scientific activity over time.

In parallel to the great development and has taken on dimensions that modern science during the twentieth century, the discipline of information science has developed a range instruments for recording scientific production and facilitate rapid access to accurate information. 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 intermediaries, so is essential from the field of training to introduce students to the knowledge and use of these tools and resources to be able to develop the skills to locate and manage the information they need or may be of interest to the exercise in their professional and research activities.



The aim of the course is to provide basic concepts and schemes to address the issue. As didactic tools, supplementary activities (tutoring) and the analysis of some case-studies (seminars) will be carried out. So, some topics related with methods in biomedicine will be discussed, 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 the use of documentary sources and resources in electronic format, involving the formation of an acquisition of cri

COMPETENCES / LEARNING OUTCOMES

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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, y comprendiendo la importancia y las limitaciones del pensamiento científico en materia sanitaria y nutricional.

Develop the capacity to gather and convey information in English at a level equivalent to the B1 level in the Common European Framework of Reference for Languages.

Know, judge and know how to use and apply the sources of information related to nutrition, food, lifestyles and health.

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

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 in health sciences

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

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

Scientific 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.

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.

- **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 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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