

**43122 Workshop 4. Quantification. Exploration and presentation of archaeological data****COURSE DATA****DATA SUBJECT****Code:** 43122**Name:** Workshop 4. Quantification. Exploration and presentation of archaeological data**Cycle:** Master's Degree**ECTS Credits:** 3**Academic year:** 2026-27**STUDY (S)**

Degree	Center	Acad. year	Period
2143 - Master's Degree in Archaeology	Facultat de Geografia i Història	1	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2143 - Master's Degree in Archaeology	From archaeological register to archaeological heritage	COMPULSORY

COORDINATION

GARCIA PUCHOL MARIA ORETO

SUMMARY

This course is part of the theoretical and practical matter ARCHAEOLOGICAL HERITAGE OF ARCHAEOLOGICAL RECORD of 10 ECTS, which will introduce the student to the methods, techniques and procedures for the design and management of the archaeological works.

The Workshop 4 has the goal to introduce the students in quantitative methods for analyse archaeological data, from managing database, spreadsheet, and the exploration of descriptive and inferential statistics.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

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

OTHER REQUIREMENTS

No prerequisites are required except those set to access the Masters.



COMPETENCES / LEARNING OUTCOMES

2143 - Master's Degree in Archaeology

Adquirir y asumir los principios de la ética profesional o investigadora en relación con la Arqueología de cara a su futura labor profesional y respetar la legislación en materia de Patrimonio arqueológico.

Analizar y sintetizar información de manera crítica. Trabajar de forma autónoma, resolviendo problemas y tomando decisiones.

Be able to access the information required (databases, scientific articles, etc.) and to interpret and use it sensibly.

Capacidad de utilizar las herramientas informáticas, cartográficas y estadísticas adecuadas para la actividad arqueológica profesional o investigadora.

Capacidad para delimitar las características de un yacimiento arqueológico y su interés

Capacidad para establecer la estrategia más adecuada de excavación y documentación, diseñando un plan de acción razonado y evaluado en términos económicos.

Conocer y utilizar las herramientas de información de otras áreas de conocimiento (Geoarqueología, Cartografía, Topografía, Estadística y Arqueometría), recurriendo adecuadamente a ellas en relación con las necesidades que plantee el trabajo en Arqueología.

Conocimiento de las necesidades empresariales relacionadas con la actividad arqueológica.

Conocimiento de las principales problemáticas, teorías y métodos de investigación arqueológicos aplicados al Mediterráneo Occidental.

Conocimiento de los procedimientos administrativos y la legislación referida al Patrimonio Arqueológico.

Conocimiento de los protocolos y procedimientos de gestión museísticos relativos al Patrimonio Arqueológico.

Integrarse en el trabajo arqueológico en equipo, considerando la diversidad de campos de actuación y la formación que implica la labor de campo o la investigación arqueológica.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should demonstrate self-directed learning skills for continued academic growth.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

Valorar las estrategias de desarrollo de la actividad de campo y de gestión, o de investigación en



43122 Workshop 4. Quantification. Exploration and presentation of archaeological data

Arqueologia. Habida cuenta de que cualquier actividad de campo, de gestión o de investigación en Arqueología requiere una adecuada comprensión de los objetivos, tiempos, medios y recursos disponibles, así como una planificación adecuada de las metodologías y acciones a llevar a cabo en relación con los mismos.

DESCRIPTION OF CONTENTS

1. Workshop 4. Quantification. Exploration and presentation of archaeological data

This part of the module has the structure of an intensive workshop, and will run for two weeks, once they have completed the rest of the field activities.

1. Databases and spreadsheets.
2. Quantification in archaeology. Exploration, description of archaeological data and presentation of results: Statistical programs.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	12,00
Laboratory	3,00
Classroom practices	3,00
Total hours	18,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	0,00
Independent study and work	0,00
Preparation of lessons	0,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	0,00

TEACHING METHODOLOGY

Teaching methodologies are diverse and adapt to the various components that make up this subject area:

Lectures: In the classroom, the teacher will present and explain key concepts that will guide students in studying and understanding the subject matter, using appropriate materials and resources. It is essential that students read the relevant references.



43122 Workshop 4. Quantification. Exploration and presentation of archaeological data

Computer Lab Sessions: In these sessions, students will carry out procedures previously explained by the teacher, mainly involving:

- a) The use and management of spreadsheets and statistical software to solve basic problems and generate illustrative graphs.
- b) The integration of new technologies to provide students with information. Through the Virtual Classroom, selected materials will be made available to support independent work, including recommended readings necessary for following the course topics. The Virtual Classroom will also provide basic information about the course (general objectives, etc.) and supplementary materials.

For some topics, students will be responsible for locating appropriate readings from academic journals listed in the reference bibliography.

EVALUATION

Assistance at 80% of theoretical and practical classes and participation

Work on the management of quantitative information from tables, indexes and charts for the Workshop.

REFERENCES

- Shennan, S. 1992. Arqueología Cuantitativa. Crítica.
- Fernández Martínez, V.M. 2015. Arqueoestadística. Métodos cuantitativos en arqueología. Alianza editorial.
- Estadística - <http://www.aulafacil.com/CursoEstadistica/CursoEstadistica.htm>
- <http://ciberconta.unizar.es/docencia/estadistica/>
- http://victorgonzalez.atspace.com/arqucuant_archivos/slide0001.htm
- Bases Gestión Bibliográfica - <https://www.refworks.com/content/webinars/default.asp>
- <http://www.zotero.org/support/start>