

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

Code	43122
Name	Workshop 4. Quantification. Exploration and presentation of archaeological data
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2023 - 2024

Study (s)

Degree	Center	Acad. year	Period
2143 - M.D. in Archaeology	Faculty of Geography and History	1	First term

Subject-matter

Degree	Subject-matter	Character
2143 - M.D. in Archaeology	3 - From archaeological register to archaeological heritage	Obligatory

Coordination

Name	Department
BERNABEU AUBAN, JUAN	360 - Prehistory, Archaeology and Ancient History
GARCIA PUCHOL, MARIA ORETO	360 - Prehistory, Archaeology and Ancient History

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 stadistics.

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.

OUTCOMES

2143 - M.D. in Archaeology

- 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.
- Capacidad de utilizar las herramientas informáticas, cartográficas y estadísticas adecuadas para la actividad arqueológica profesional o investigadora.
- 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.
- Conocimiento de las necesidades empresariales relacionadas con la actividad 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.
- Be able to access the information required (databases, scientific articles, etc.) and to interpret and use it sensibly.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- 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.
- Valorar las estrategias de desarrollo de la actividad de campo y de gestión, o de investigación en Arqueología. 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.



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

LEARNING OUTCOMES

This subject matter is part of Archaeological Registry Archaeological Heritage, which aims to introduce students to the problems that stem from professional archaeological work, for the management of the archaeological record in its various facets, and its preservation and dissemination, as that cultural heritage. Some of the procedures and tools are flexible in their application both log management processes and its analysis and research.

The student must know:

- Basic management of spreadsheets.
- Quantitative archaeological data analysis, from to summarize information, to conduct statistical analysis.
- Finally, the Workshop module aims to familiarize students with the use of various computer tools related to data analysis.

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. Bibliographic Databases and documentaries. Zotero and RefWorks.
2. Early quantification. Exploration, description of archaeological data and presentation of results. Spreadsheets and statistical programs.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	12,00	100
Laboratory practices	3,00	100
Classroom practices	3,00	100
TOTAL	18,00	

TEACHING METHODOLOGY

Teaching methodologies are diverse, adapting in each case to the various parts which compose this area,
Theory classes
Laboratory and practical classes in computer classroom

EVALUATION

Assistance at 80% of theoretical and practical classes and participation

Presentation of summary of scheduled conferences

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

Teaching methodologies are diverse, adapting in each case to the various parts which compose the module

- The lectures: In the classroom, the teacher will present and explain those key elements that should guide the student in the study and understanding of the subject matter, using appropriate means to do so. It is essential that the student make a reading of that manual or previously texts that tell you.

For some topics will be the students themselves who search the appropriate readings of the archive journals listed in the reference list.

- Laboratory Practices: In this case will pose practical problems the student must solve, through the management of reference collections or search and selection remains bioarchaeological.

- The computer classroom practices. In this case the student must perform those procedures which will first be explained by the teacher and serving, essentially

a) use and management of spreadsheets and statistical programs to solve simple problems and illustrative graphs obtaining their results

b) New technologies will be incorporated to provide information to students. In our Virtual Classroom will provide selected information and useful for non-contact work, as well as the appropriate considere



readings for the proper monitoring of the issues. Be accessible from that page, both basic information on the subject (general objectives, program, ...) and to different supplementary material.

For some topics will be the students themselves who search the appropriate readings of the archive journals listed in the reference list.

Tutoring Assistance:

The student may attend the tutorials and assistance to students who have programmed each teacher, to consult on any topic or aspect of the subject, so as to achieve the disferentes jobs.

Hours of operation shall indicate the first day of class and will be posted in the Virtual Classroom.

REFERENCES

Basic

- 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>

Additional

- La Bibliografia complementària, si es cau, serà proporcionada pel professorat en el desenvolupament del bloc temàtic que es tracte.