

COURSE DATA

| Data Subject | | |
|---------------|--|--|
| Code | 43121 | |
| Name | Retrieval, identification and interpretation of biotic records | |
| Cycle | Master's degree | |
| ECTS Credits | 3.0 | |
| Academic year | 2021 - 2022 | |

| Degree | Center | Acad. Period | | |
|----------------------------|----------------------------------|--------------|------------|--|
| | | year | | |
| 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

Study (s)

| Name | Department |
|-------------------------|---|
| CARRION MARCO, YOLANDA | 296 - Prehistory and Archaeology |
| REAL MARGALEF, CRISTINA | 360 - Prehistory, Archaeology and Ancient History |

SUMMARY

This course aims at giving a specialized formation in methods, analysis and interpretation of biotic remains found at archaeological sites. Two branches work: Fauna (Osteoarchaeology) and flora (Archaeobotany). A specialist teacher in one of them will present each one.

Environmental sciences have been systematically integrated into the approaches of archaeology; so, it is necessary to offer modules in these fields for future professionals. In this programme, the biotic remains are treated as a source of cultural and environmental knowledge.

The objective is to know the field and laboratory methods to recover and identify biotic remains.

Attention is paid to taphonomy, cultural, ecological, etc. information



The management of plant and animal resource of a cross shape will work from Prehistory to History, paying attention to climate and cultural changes.

Efforts will be made to student's knowledge to interpret the reports by specialist's archaeobotany and osteoarchaeology, to complete the interdisciplinary analysis that needs to archaeology

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

Relationship to other subjects of the same degree:

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

Other requirements:

No prerequisites except those established to access the Master.

OUTCOMES

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- 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.
- 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.



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- 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

Basically, it is intended that the students who study this subject:

- 1) Acquire a general knowledge of the basic principles of Archeobotany and Osteoarchaeology.
- 2) Have a clear perception of the applications of these studies and their contribution to problem solving.
- 3) Be aware of the information that can be obtained with each of the biotic remains, as far as cultural and environmental aspects are concerned.
- 4) Learn the usefulness of analyses of bone remains and flora to know the societies of the past and the environment where they were developed.

In short, it is a matter of preparing the student so that in his future professional development he will be able, by working in multidisciplinary teams, to sample and analyse the archaeological materials that best adapt to the information he wants to obtain: chronology, economics, ecology, etc.

DESCRIPTION OF CONTENTS

1. The archaeobotany

- 1. The archaeobotany. Definition and historical development
- 2. The vegetable macro-remains wood, seeds, leaves. Sampling strategies.
- 3. The micro-remains plant: pollen, spores, phytoliths. Sampling strategies.
- 4. Applications archaeobotany
- 5. Macrorremains and Radiocarbon. Problems to be solved.
- 6. Laboratory practices

2. Osteoarchaeology

- archaeozoology
- 2. Taxonomy
- 3. osteometry
- 4. taphonomic aspects



WORKLOAD

| ACTIVITY | Hours | % To be attended |
|---------------------------------|-------|------------------|
| Theory classes | 12,00 | 100 |
| Laboratory practices | 3,00 | 100 |
| Classroom practices | 3,00 | 100 |
| Development of individual work | 10,00 | 0 |
| Study and independent work | 30,00 | 0 |
| Readings supplementary material | 10,00 | 0 |
| TOTAL | 68,00 | |

TEACHING METHODOLOGY

A.- The Lessons

The subject will be imparted intercalating the exposition of the theoretical program with examples of application of the described analytical techniques to the study of biotic materials: bone remains and flora.

The laboratory practices will be carried out, in laboratory of the Department of Prehistory, Archaeology and Ancient History.

In the theoretical classes, the teacher will develop the program of the subject with support of audio-visuals media, seeking the participation of the students through the presentation of simple situations and problems. It will be proposed that the students make readings that complement the exposure by the teachers of a certain subject. The readings will generally be of articles or of some chapter of the manuals that are indicated.

In practical laboratory classes students will be in direct contact with the analytical instrumentation participating in the process of preparation, measurement and analysis of samples of prehistoric fauna and flora.

B. Tutorials:

Students will be able to attend the regular tutorials, established in the faculty teaching calendar, for all types of queries related to the content of the syllabus or any other matter related to the subject.



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EVALUATION

The above mentioned methodological approach pursues the objective of favoring a frequent and continuous contact of the teaching staff with the students so that it is possible to know the progress of their learning and to carry out an evaluation of this in several levels and taking care of several aspects.

Thus, the evaluation of the subject will consist of a continuous assessment complemented with objective data from the work carried out by the students:

- Students must attend at least 80% of the classes.
- A work or a test with multiple response items will be carried out, in which the knowledge acquired by the students during the course will be evaluated. The score of this test will represent 90% of the overall rating. Complementary activities as well as continuous assessment during class will contribute up to 10% of the overall grade.

The subject will be considered approved when the student receives an overall grade greater than or equal to 5 out of 10.

REFERENCES

Basic

- Bourquin-Mignot, C.; Brochier, J.E.; Chabal, L. et alii. 1999. La botanique: Col. Archéologiques. Editions Errance.
 - Buxó, R. y Piqué, R. 2003. La recogida de muestras en arqueobotánica. Objetivos y propuestas metodológicas. Museu dArqueología de Catalunya.
 - Buxó, R. y Piqué, R. 2008. Arqueobotánica. Editorial Ariel.
- Revistas:
 - Journal of Quaternary Science
 - The Holocene
 - Quaternary Science Reviews
 - Vegetation History and Archaeobotany
- Webs:
 - http:/www.uv.es/floraiberica
 - http://www.anthos.es/
 - http://www.paldat.org
 - http://www.paleodiversitas.org



- CLUTTON-BROCK, J. 1999. A natural history of domesticated mammals. Cambridge : Cambridge University Press.
 - DAVIS, S.J.M., 1989. La arqueología de los animales. Bellaterra.
 - GAUTIER, A., 1990. La domestication. Errance, Paris.
 - Villaverde.V. 2001. De neandertales a cromañones. El inico del poblamiento humano en las tierras valencianas. Universitat de València.
 - VIGNES,J., D., HELMER,D. y PETERS,J (Eds), 2006. The First Steps of Animal Domestication. Oxbow Books.
- Revistas:
 - Journal of Quaternary Science
 - The Holocene
 - Quaternary Science Reviews
 - Trends in Genetics
 - Munibe
 - American Antiquity
 - Anthropothozoologica
 - Paléo
 - Archaeofauna

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

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PRESENTIAL / SEMI-PRESENTIAL TEACHING

1. Contents

The contents initially included in the teaching guide are maintained

2. Workload and time schedule

The activities and their hours of dedication in ECTS credits marked in the original course guide will be kept. If the classrooms capacity according to the sanitary norms allows it, the theoretical and practical class attendance will be 100% (if the capacity couldn't be guaranteed, the class attendance would be reduced). Teaching planning will be specified at the beginning of the term.

If the sanitary situation changes and no access to the University facilities is possible, all teaching activities will be carried out completely online. In this case, the adaptations will be communicated to the students through the Virtual classroom.



3. Teaching Methodology

Theory and practice classes that may be complemented with different types of materials and activities in the Virtual classroom.

Tutorials will be done online (through the UV corporate mail) or face-to-face by prior appointment with the teacher.

If the sanitary situation changes and no access to the University facilities is possible, teaching and tutorials will be carried out completely online. In this case, the adaptations will be communicated to the students through the Virtual classroom.

4. Evaluation

The evaluation criteria established in the Course Guide are kept.

If the University facilities are closed on the dates set in the official calendar for the final exam, the face-to-face exam will be replaced by an online test.

5. Bibliographic references

The recommended bibliography in the Course Guide is kept. If the sanitary situation changes and the access to the recommended bibliography is not possible, it will be replaced by materials accessible online.

