

Research Instruments for Classical Archaeology

Code: 100726
ECTS Credits: 6

Degree	Type	Year	Semester
2500241 Archaeology	OT	3	0
2500241 Archaeology	OT	4	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Josep Maria Puche Fontanilles
César Carreras

Prerequisites

There are no prerequisites

Objectives and Contextualisation

The classical archaeology has of some technical resources that allow him face a part of his scientific work with a degree of reliability increasingly big. In this matter will analyse in depth the most specialised appearances of these instrumental tools by such to obtain some reliable results in the works of investigation and historical interpretation generated by the archaeological activity. Appearances like the analyses of ceramic pastes applied to the ceramologia; the study of the metalografía, the technicians of coin in the case of the ancient numismatist and the methods of planimetric lifting for the study of the architectural structures will be elements of study, also the knowledge of the materials lapidea.

On the other hand, the form of as collect and elaborate the documentation in the field and his treatment in the laboratory are basic to have of some samples the maximum of efficient and reliable have to be structured and practised in the classes by such to attain his documentary value. For this reason it will insist in you form them of graphic recording (drawing) of structures and archaeological objects, so much in the version of paper as in digital format. Besides, they will analyse resulted of the prospecciones geofísiques with suitable computer programs.

In this matter will expand many of the contents treated in other subjects but with a marked orientation verse the classical archaeology.

Competitions to attain. The students will learn to

Be able to elaborate fichas of archaeological information referred to material
 Know the applications and the limits of different instrumental resources applied, such as the ceramología and the numismatist.
 Draw material and archaeological structures in paper and be able of digitalizarlos
 Know and know value him the existence of the different methodologies of the planimetric lifting.
 Be able to apply in each case the instruments that allow a good archaeological analysis of data of the prospección geophysics.
 Know in a more specific degree the different instruments used in the classical archaeology.

Competences

Archaeology

- Generating innovative and competitive proposals in research and professional activity.
- Managing the main methods, techniques and analytic tools in archaeology.
- Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethic relevant issues.
- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.

Learning Outcomes

1. Applying proper techniques and analytical tools in case studies.
2. Autonomously searching, selecting and processing information both from structured sources (databases, bibliographies, specialized magazines) and from across the network.
3. Drawing up conventional graphic documents: planimetry, topography, cartography, explanatory drawing.
4. Establishing investigation protocols for original research projects.
5. Explaining in oral and written form the characteristics of a Latin text of increasing difficulty.
6. Managing the main historical investigation techniques.
7. Mastering specific techniques and instrumental resources of archaeological laboratory analysis.
8. Mastering the specific techniques and instrumental resources of the archaeological excavations and surveys.
9. Organising and planning the search of historical information.
10. Reflecting on their own work and the immediate environment's in order to continuously improve it.
11. Submitting works in accordance with both individual and small group demands and personal styles.
12. Using computing resources of the area of study of history.
13. Using computing tools, both basics (word processor or databases, for example) and specialised software needed in the professional practice of archaeology.
14. Utilising the information collection tools such as bibliographical catalogues, archive inventories and electronic references.

Content

Block 1 Trade of amphoras and common ceramics

History of the investigation republican amphoras (practice)
 Epigraphy imperial amphoras (practice)
 Quantification amphoras under imperial (practice)
 Practical of classification %one2013 pastes, reports and common
 Ceramic forms
 Seminar - Shipwreck cargo

Bloc 2 Extractive industries

Metal exploitation and mines

Quarries

Analysis metalographic and petrologic - practice

Seminar A quarry

Bloc 3 Drawing

Principles of practical archaeologic drawing

practical complex Drawings

practical architectural Drawings

digital Drawing - computer Classroom

archaeologic Plants of AUTOCAD

archaeologic Plants of AUTOCAD

Block 4 Geophysics-Demography

Resistivity - Practice GIS

Magnetometria and GPR practice GIS

Analysis of cases of interpretation and filters (reports)

Calculations of populations (demography) and mobility (project ORBIS)

Methodology

The subject will base in activities in the classroom, so much the laboratory of archaeology like the computer classroom, resolve problems in group and autónomamente that has at most exponent the study of a group of materials like work of course. On the other hand, they will do some seminars of discussion by such to favour the critical vision in the use of determinate methodologies and his interpretation. Besides it will have the support of the Virtual Campus of the UAB.

1. Activities in the classroom.

The activities that will develop in the classroom will have like conductive thread the masterclass with support of presentations in power point together with the practices of study of materials and his graphic representation. On the other hand, they will give practical classes in the computer classroom with a theoretical introduction, but especially practical exercises to resolve graphic problems or of interpretation.

2. Seminars.

The subject includes a pair of Seminars with specialists invited that will pose a problematic methodological or interpretative, that will argue in the group. For this reason, the students will have to prepare the subject with antelación from readings, and argue with the speaker and the rest of mates, which would be the most adapted solution to answer to the problem presented. It treats then , to apply knowledges purchased and competitions of critical form in front of real situations.

3. The autonomous activity.

When treating of a very practical subject is important that the students use all the technicians and methods presented enel course. Therefore, it has designed an exercise tutorizado in group so that the students classify, draw, contextualise and interpret a group of material (ceramic, líticos and metallic) pertinent of an excavation and what can write a brief report.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Directed	30	1.2	1, 2, 6, 7, 8, 5, 9, 3, 14, 12, 13
Type: Supervised			
Supervised	15	0.6	1, 2, 6, 7, 8, 4, 5, 9, 11, 3, 10, 14, 12, 13
Type: Autonomous			
Autonomous 1	6	0.24	5, 11, 10
Autonomous 2	16.5	0.66	1, 2, 4, 14, 12
Autonomous 3	40	1.6	1, 2, 6, 7, 8, 4, 5, 9, 11, 3, 10, 14, 12, 13

Assessment

1. Exercise - Study of archaeological material (90%).

1.a: Presentation (40%)

1.b: Technical report following the criterion of the Archaeological Service of the Generalitat (40%)

Competences to show for the obtaining of some results of optimum evaluation:

Knowledges:

- Show that the student has familiarised and dominates the archaeological documentary sources and the works of previous investigation to the start of any archaeological investigation of field
- Know develop a work of investigation formally correct so much regarding the structure like the references and the citations bibliographic.
- Show a correct assimilation of the exposed contents.

Skills:

- Use the main methods, technical and instruments of analysis of the archaeology
- Make conventional graphic documents: planimetry, topography, cartography, illustrative drawing
- Use the main computer instruments and of management of data and of the technology of the information and

communication in general in the specific field of the historical sciences-archaeologic

- Recognise the importance to control the quality of the results of work and his presentations

2. Review (10%).

Knowledges:

- Show that the student has familiarised and dominates the archaeological documentary sources and the works of previous investigation to the start of any archaeological investigation of field

Skills:

- Summarise the main epistemological arguments and methodological in archaeology and the main technical of investigation

Reevaluación

- Review again the materials

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Presentation	40%	26.5	1.06	1, 2, 6, 7, 8, 4, 5, 9, 11, 3, 10, 14, 12, 13
Report	50%	10	0.4	1, 5, 9, 3, 12
Review	10%	6	0.24	5, 11, 10

Bibliography

General

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Bowman, A. K. and Wilson, A. I. (eds) (2012), *Settlement, Urbanisation and Population*, Oxford Studies in the Roman Economy 2. Oxford University Press, Oxford.

Webs

The Oxford Roman Economy Project

<http://oxrep.classics.ox.ac.uk/>

Amphora trade

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Webs

Amphorae ex Hispaniae

<http://amphorae.icac.net/>

Roman amphorae: a digital source

http://archaeologydataservice.ac.uk/archives/view/amphora_ahrb_2005/

FACEM

<http://facem.at/>

CEIPAC

<http://ceipac.gh.ub.es/>

Drawing

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- Schlitz, M. (2005) 'Archaeological Photography' in *The Focal Encyclopaedia of Photography*, Fourth Edition, Elsevier Inc. Massachusetts
- Simmons, H.C. (1969) *Archaeological Photography*. London.

Webs

Advice on all digital imaging issues.

<http://www.tasi.ac.uk/index.html>

Archaeology and photography -Michael Shanks

<http://metamedia.stanford.edu/projects/MichaelShanks/943>

Dave Webb's gallery of Diggers

<http://www.archdiggers.co.uk/diggers/frameset.html>

Projecte Orbis

<http://orbis.stanford.edu/>

Drawing of archaeological architecture

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Geophysics and demography

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Extractive industries

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Glass

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Software

AUTOCAD, IDRISI