

## 61262 - Archaeometry

### Syllabus Information

**Academic Year:** 2022/23

**Subject:** 61262 - Archaeometry

**Faculty / School:** 103 - Facultad de Filosofía y Letras

**Degree:** 553 - Master's in the Ancient World and Archaeological Heritage

**ECTS:** 4.0

**Year:** 1

**Semester:** Second semester

**Subject Type:** Optional

**Module:**

### 1. General information

### 2. Learning goals

### 3. Assessment (1st and 2nd call)

### 4. Methodology, learning tasks, syllabus and resources

#### 4.1. Methodological overview

- The methodology followed in this course is oriented towards the achievement of the learning objectives.
- Students are expected to participate actively in the class throughout the semester.
- Further information regarding the course will be provided on the first day of class.
- The approach, methodology and evaluation of this guide are prepared to be the same in any teaching setting. They will conform to socio-sanitary conditions of each moment, as well as the indications given by the competent authorities

#### 4.2. Learning tasks

- Theoretical lectures.
- Practical lectures.
- Individual work.
- Personal study.
- Assessment activities.

#### 4.3. Syllabus

**Section I:**

1. Introduction. Archaeometry: definition, origin and current applications, including manufactured ceramics.
2. Radiometric dating
  - 2.1. Radiocarbon
  - 2.2. OSL
  - 2.3. U / Th and TL
3. Stable isotope analysis
  - 3.1. Paleoclimatic reconstructions
  - 3.2. Reconstructions of diets and mobility - Analysis of residues conserved in ceramics.
4. Physico-chemical analysis of materials
  - 4.1. Characterization of pigments in manufactured ceramics.
  - 4.2. Petrographic / Petrochemical Analysis
  - 4.3. ZooMS and aDNA
5. Modeling in Prehistory through ceramics.

## Section II: The pottery of the classical world

1. Artists or artisans?
2. The potter's wheel at the mold.
3. Commerce: commercialization in republican and altoimperial time.
4. The pottery: privileged ideological support.
5. Morphology of ceramics in the classical world.
6. Classification systems and typologies.

## 4.4. Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Facultad de Filosofía y Letras.

See the academic calendar of the University of Zaragoza (<http://academico.unizar.es/calendario-academico/calendario>) and the website of the Faculty of Philosophy and Arts (*Schedule of classes*: <https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>; Examination schedule: <https://fyl.unizar.es/calendario-de-examenes#overlay-context=>)

More information will be provided on the first day of class.

## 4.5. Bibliography and recommended resources

- [Section I] - Salduie : estudios de prehistoria y arqueología / Departamento de Ciencias de la Antigüedad de la Universidad de Zaragoza. Zaragoza : Universidad de Zaragoza, Departamento de Ciencias de la Antigüedad, 2000- [Publicación periódica] [M<sup>a</sup> Cruz Sopena Vicién: ?La investigación arqueológica a partir del dibujo informatizado de cerámica?, n<sup>o</sup> 6, 2006, PP. 13-27]
- [Section II] - Beltrán Lloris, Miguel. Guía de la cerámica romana / Miguel Beltrán Lloris . Zaragoza : Libros Pórtico, 1990.
- [Section II] - Estudios sobre el Monte Testaccio : (Roma) II/ J. Ma. Blázquez Martínez, J. Remesal Rodríguez (eds.) . Barcelona : Universitat de Barcelona, 2001.
- [Section II] - Carreras Monfort, César. Una reconstrucción del comercio en cerámicas : la red de transportes en Britannia : Aplicaciones de modelos de simulación en PASCAL y SPANS / César Carreras Monfort . Barcelona : Servei del Llibre L'Estaqüiro, 1994.
- [Section II] - Cuomo di Caprio, Ninina. La ceramica in archeologia : antiche tecniche di lavorazione e moderni metodi d'indagine / Ninina Cuomo di Caprio . Roma : L'Erma di Bretschneider, 1985
- [Section II] - Druc, Isabelle C.. Pastas cerámicas en lupa digital: componentes, textura y tecnología / Isabelle C. Druc, Lisenia Chávez Wisconsi: Deep University Press, 2014.
- [Section II] - Introducción al estudio de la cerámica romana : una breve guía de referencia / Mercedes Roca Roumens, M<sup>a</sup> Isabel Fernández García (coords.) . [Málaga] : Servicio de Publicaciones de la Universidad de Málaga, D.L. 2005.
- [Section II] - Peacock, D. P. S.. La ceramica romana: tra archeologia e etnografia/ David P. S. Peacock ; a cura di Giuseppe Pucci . Bari : Edipublia, 1997.
- [Section II] - Mannoni, Tiziano. Arqueología: materias, objetos y producciones / Tiziano Mannoni, Enrico Giannichedda Barcelona: Ariel, 2007.
- [Section II] - Cerámicas hispanorromanas : un estado de la cuestión / D. Bernal Casasola y A. Ribera i Lacomba (eds. científicos) . Cádiz : Asociación Rei Cretariae Romanae Fautores, 2008.
- [Section II] - Cerámicas hispanorromanas. II, Producciones regionales / Darío Bernal Casasola, Albert Ribera i

