

## SUBJECT TEACHING GUIDE

### 226 - Prehistorical Technology

#### Master's Degree in Prehistory and Archaeology

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Master's Degree in Prehistory and Archaeology			Type and Year	Compulsory. Year 1
Faculty	Faculty of Humanities				
Discipline	Compulsory Subjects in the Specialty of Prehistory				
Course unit title and code	226 - Prehistorical Technology				
Number of ECTS credits allocated	3	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS HISTORICAS				
Name of lecturer	JESUS EMILIO GONZALEZ URQUIJO				
E-mail	jesuse.gonzalez@unican.es				
Office	Edificio Interfacultativo. Planta: + 1. DESPACHO PROFESORES (155)				
Other lecturers					

### 3.1 LEARNING OUTCOMES

- Understand the role of technological behaviors in relation to economic and social organization. Know the main conceptual elements for the study of prehistoric technology.

### 4. OBJECTIVES

Technology is a privileged field of study for the historical interpretation of past societies, starting from the conception of technology as a total social fact, in the sense of M. Mauss. The course studies the sources on which technological reconstruction is nourished (preserved evidence, experimentation, ethnoarchaeology), concepts (technical gesture, operational chain, technical process), work techniques on different raw materials (animals, vegetables and minerals), the relationships between technical systems and economic strategies and between technical systems and social behaviors (learning, the social division of labor, or specialization).

6. SUBJECT PROGRAM	
CONTENTS	
1	<p>Prehistoric technology: theoretical and methodological junction</p> <p>Sources for technological reconstruction (conserved evidence, experimentation, ethnoarcheology).</p> <p>The concepts (technical gesture, operational chain, technical process)</p> <p>General characteristics of work techniques in different raw materials (animals, vegetables and minerals)</p> <p>Relations between technical systems and economic strategies and between technical systems and social behaviors (learning, the social division of labor, or specialization).</p>

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Exam with short questions	Written exam	No	Yes	40,00
Essay	Work	Yes	Yes	60,00
<b>TOTAL</b>				<b>100,00</b>
<b>Observations</b>				
<p><b>CLASS ATTENDANCE</b></p> <p>In the event that the health situation forces to modify the face-to-face conditions towards a scenario 2 (mixed teaching) or a scenario 3 (virtual teaching), the assistance will be verified using the tools available in the institutional platforms of the UC. MOODLE chats and forums at the scheduled times for the subject or at alternative times if necessary. Also, if appropriate, connections will be established by video call, individual or collective.</p> <p><b>ONGOING EVALUATION ACTIVITIES</b></p> <p>In the event that the health situation forces to modify the face-to-face conditions towards a scenario 2 (mixed teaching) or a scenario 3 (virtual teaching), the continuous evaluation activities will be delivered and corrected preferably through the tools of the MOODLE platform .</p> <p><b>SEMINARS / COMMUNICATIONS / GROUP WORK PRESENTATIONS</b></p> <p>In the event that the health situation forces to modify the face-to-face conditions towards a scenario 2 (mixed teaching) or a scenario 3 (virtual teaching), the activity will be carried out preferably through institutional platforms</p> <p><b>TUTORED WORKS</b></p> <p>In the event that the health situation forces to modify the face-to-face conditions towards a scenario 2 (mixed teaching) or a scenario 3 (virtual teaching), the interaction between teacher and students will be carried out preferably through the tools available in the institutional platforms of the UC (chats and MOODLE forums, video calls etc ...) and oral / written presentation through institutional platforms</p>				
<b>Observations for part-time students</b>				
Unique assessment by examining short and test questions				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Albero, D. (2014) *Materiality, Techniques and Society in Pottery Production*. De Gruyter Open Ltd.: Warsaw/Berlin.

Balfet, H. (1991) *Observer l'action technique. Des chaînes opératoires, pour quoi faire ?* CNRS, Paris.

Day, P. M., Relaki, M. y Faber, E. W. (2006) *Pottery Making and Social Reproduction in the Bronze Age Mesara*, En M. H. Wiener et al. (eds.), *Pottery and Society*, 22-72. Los Angeles, Archaeological Institute of America

Gosselain, O. (1992). "Technology and Style: Potters and Pottery Among Bafia of Cameroon". *Man* 27 (3): 559–586.

Iles, L- y Martinon-Torres, M. (2009) *Pastoralist iron production on the Laikipia Plateau, Kenya: wider implications for archaeometallurgical studies*. *Journal of Archaeological Science*, 36 (10) 2314-2326.

Lemonnier, P. (1991) *De la culture matérielle à la culture ? Ethnologie des techniques et préhistoire*, En 25 ans d'Etudes technologiques en préhistoire, XIe Rencontres Internationales d'Archéologie et d'Histoire d'Antibes, Éditions APDCA, Juan-les-Pins.

Martinón-Torres, M. (2002) *Chaîne opératoire: the concept and its applications within the study of technology*. *Gallaecia*, 21: 29-43.

Pryce, T.O.; Pigott, V.C.; Martinón-Torres, M. y Rehren, T. (2010) *Prehistoric copper production and technological reproduction in the Khao Wong Prachan Valley of Central Thailand*. *Archaeological and Anthropological Sciences*, 2 (4) 237-264.

Soressi, M. y Geneste, J.-M. (2011). "Special Issue: Reduction Sequence, Chaîne Opératoire, and Other Methods: The Epistemologies of Different Approaches to Lithic Analysis; The History and Efficacy of the Chaîne Opératoire Approach to Lithic Analysis: Studying Techniques to Reveal Past Societies in an Evolutionary Perspective". *PaleoAnthropology*: 336. doi:10.4207/PA.2011.ART63

Terradas, X. (1996) *La gestió dels recursos minerals entre les comunitats caçadores-recol.lectores: vers una representació de les estratègies de proveïment de matèries primers*. Universitat Autònoma de Barcelona.

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Terradas, X. (1996) *La gestió dels recursos minerals entre les comunitats caçadores-recol.lectores: vers una representació de les estratègies de proveïment de matèries primers*. Universitat Autònoma de Barcelona.

- Albero, D. (2014) *Materiality, Techniques and Society in Pottery Production*. De Gruyter Open Ltd.: Warsaw/Berlin.
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- Lemonnier, P. (1991) *De la culture matérielle à la culture ? Ethnologie des techniques et préhistoire*, En 25 ans d'Etudes technologiques en préhistoire, XIe Rencontres Internationales d'Archéologie et d'Histoire d'Antibes, Éditions APDCA, Juan-les-Pins.
- Martinón-Torres, M. (2002) *Chaîne opératoire: the concept and its applications within the study of technology*. *Gallaecia*, 21: 29-43.
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