

Degree programme	Type	Course
History of Science: History, Heritage and Scientific Communication	OB	1

Contact lecturer

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Group languages

You can consult this information at the [end](#) of the document.

Prerequisites

There are none.

Objectives

This course aims to train students to analyze the material culture of science (instruments, spaces, collections, archives) and the processes of circulation of knowledge, thus providing the theoretical and practical tools necessary to incorporate the critical perspectives of the history of science in the areas of scientific heritage management and scientific communication.

Learning outcomes

- CA06 (Critically evaluate the different approaches in the formulation of problems in the fields of definition and management of scientific heritage and scientific communication.) Critically evaluate the different approaches in the formulation of problems in the fields of definition and management of scientific heritage and scientific communication.
- CA07 (Prepare critical bibliographies on specific problems in the fields of definition and management of scientific heritage and scientific communication.) Prepare critical bibliographies on specific problems in the fields of definition and management of scientific heritage and scientific communication.
- CA08 (Rigorously communicate to specialised and non-specialised audiences the impact of gender biases and inequalities in the processes of scientific professionalisation, using well-founded arguments and adapting the discourse to the context.) Rigorously communicate to specialised and non-specialised audiences the impact of gender biases and inequalities in the processes of scientific professionalisation, using well-founded arguments and adapting the discourse to the context.
- KA05 (Accurately describe the processes of definition and management of scientific heritage and the circulation and transmission of scientific knowledge throughout history and in the current context.) Accurately describe the processes of definition and management of scientific heritage and the circulation and transmission of scientific knowledge throughout history and in the current context.
- KA06 (Precisely define the theoretical and methodological axes of the debates and controversial issues of current affairs in the history of science, the definition and management of scientific heritage and scientific communication.) Precisely define the theoretical and methodological axes of the debates and controversial issues of current affairs in the history of science, the definition and management of scientific heritage and scientific communication.
- KA07 (Accurately describe the gender biases and inequalities of rights and opportunities historically and currently present in the processes of scientific professionalisation, identifying the main factors and contexts that have conditioned them.) Accurately describe the gender biases and inequalities of rights and opportunities historically and currently present in the processes of scientific professionalisation, identifying the main factors and contexts that have conditioned them.
- SA06 (Identify the different approaches in the approach to historiographical and practical problems in the fields of the definition and management of scientific heritage and scientific communication.) Identify the different approaches in the approach to historiographical and practical problems in the fields of the definition and management of scientific heritage and scientific communication.
- SA07 (Critically analyse the mechanisms of production and management of narratives about science and its heritage, incorporating the dimensions of gender, race, class, materiality, and power.) Critically analyse the mechanisms of production and management of narratives about science and its heritage, incorporating the dimensions of gender, race, class, materiality, and power.
- SA08 (Critically analyse the mechanisms of production and editing of narratives of and about communication and scientific dissemination, incorporating the dimensions of gender, race, class, materiality and power.) Critically analyse the mechanisms of production and editing of narratives of and about communication and scientific dissemination, incorporating the dimensions of gender, race, class, materiality and power.

Contents

This course explores how the material and communicative dimensions of science are fundamental to the processes of scientific knowledge creation, both past and present. The various sessions provide the necessary theoretical and practical tools to incorporate critical perspectives from the history of science on material culture and scientific communication, while also developing skills in the design and production of professional content in these areas.

The course will begin with an introductory session describing its characteristics and features, as well as its assessment method. From there, the course will consist of two main sections: the first dedicated to heritage and the second to communication. Each section will begin with a lecture exploring the historiographies of scientific heritage and scientific communication and will conclude with a practical session.

Thus, the subject will be structured as follows:

1. Presentation

HERITAGE

2. Historiographical frameworks - Heritage

3. Chambers of wonders: Salvadoriana

4. Exhibited bodies: Anatomical Theatre

5. Heritage, knowledge and colonialism: Maritime Museum

6. Scientific academies: RACAB

7. Museum and natural sciences: Martorell Museum

8. Medicine, Architecture, Urbanism

9. Industrial Heritage and Nation: MNACTEC

10. Practical session - material culture

COMMUNICATION

11. Historiographical frameworks - Communication

12. Scientific journalism I

13. Scientific journalism II

14. Mass media: radio, cinema and television

15. Animals, animal rights and scientific communication

16. Interactivity: the science museum

17. Activist voices: areas of exchange, counterculture and fun

18. Citizen science networks

19. Practical communication session

20. Conclusion and labor market

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Classes Teòrico-Pràctiques	60	2.4	CA06, CA07, CA08, KA05, KA06, KA07, SA06, SA07, SA08
Treball Autònom	150	6	CA06, CA07, CA08, KA05, KA06, KA07, SA06, SA07, SA08
Tutories i elaboració treballs pràctics	40	1.6	CA06, CA07, CA08, KA05, KA06, KA07, SA06, SA07, SA08

In addition to providing the student with the necessary theoretical tools, this subject aims to have an eminently practical orientation. The first block of the subject, dedicated to heritage, will use the sessions held in situ in science heritage spaces, such as the Botanical Garden, the Anatomical Theatre or the Terrassa Science and Technology Museum, to endow students with the necessary tools to manage and analyze scientific heritage.

The second block will endow students with theoretical tools to critically analyze different types of scientific communication, while providing students with the practical tools of different types of scientific communication.

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.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
Informe Patrimoni	30%	0	0	CA06, CA07, CA08, KA07, SA06, SA07
Exercicis Patrimoni	20%	0	0	CA06, CA07, CA08, KA05, KA06, KA07, SA06, SA07
Article Periodístic	30%	0	0	CA06, CA08, SA08
Exercicis Comunicació	20%	0	0	CA06, CA07, CA08, KA05, KA06, KA07, SA06, SA08

1. Heritage Report (30%): Preparation of an analysis report of a heritage element of science, technology or medicine.
2. Exercises Heritage sessions (20%): Active participation in the sessions and completion of one brief exercise in the Heritage section.
3. Journalistic article (30%): Write a journalistic article with the quality and elements necessary for publication on UAB Media (<https://uab.media/>). The article will be developed over several sessions of the course and prepared for publication.
4. Exercises Communication sessions (20%): Active participation in the sessions and completion of one brief exercise in the Communication section.

This subject allows the use of AI technologies as an integral part of the submitted work, provided that the final result reflects a significant contribution from the student in terms of analysis and personal reflection. The student must clearly (i) identify which parts have been generated using AI technology; (ii) specify the tools used; and (iii) include a critical reflection on how these have influenced the process and final outcome of the activity. Lack of transparency regarding the use of AI in the assessed activity will be considered academic dishonesty; the corresponding grade may be lowered, or the work may even be awarded a zero. In cases of greater infringement, more serious action may be taken.

Bibliography

Bibliography and other resources:

On the [Sabers en Acció](#) blog, you will find many posts related to the topics covered in this course.

On the SCHCT website, you can consult the [virtual tours of Barcelona's scientific heritage](#).

Scientific communication at the UAB is available at [UABDivulga](#), and journalism and communication internships are offered at [UABMedia](#).

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- Sastre-Juan, Jaume (2016), "La inocencia de pulsar un botón. Una mirada histórica y crítica a los orígenes de la interactividad en los museos de la ciencia", *Investigación y Ciencia*: 12-13.
- Sastre-Juan i Jaume Valentines-Álvarez (2026), *La cultura científica de la Transición: La cultura científica de la Transición: Museos, ciencia y política en la Barcelona pre-olímpica*, Bellaterra Edicions.
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- Somerville, Ned (2021), "The musealization of Barcelona's industrial past", tesi doctoral, Universitat Autònoma

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Zarzoso, Alfons, y Maribel Morente (2020), *Cuerpos representados: objetos de ciencia artísticos en España, siglos XVIII-XX*, Sans Soleil Ediciones.

Software

Not needed.

Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(TEm) Theory (master)	1	Catalan/Spanish	first semester	afternoon

PROVISIONAL