



## MASTERS IN HISTORY OF SCIENCE AND SCIENTIFIC COMMUNICATION

### General Information

<b>Academic Area:</b>	<input type="checkbox"/> Experimental Science <input type="checkbox"/> Technical Education <input type="checkbox"/> Health Sciences <input checked="" type="checkbox"/> Social Science and Law <input checked="" type="checkbox"/> Humanities
<b>Organised by:</b>	"López Piñero" History of Science and Medicine Institute
<b>Participating Universities:</b>	University of Valencia
<b>Length of course:</b>	1,5 academic years. Possibility of part-time.
<b>ECTS credits:</b>	90
<b>Fees:</b>	In accordance with official rates pending publication. Indicative tuition fees: 19,20€/ECTS
<b>Taught at:</b>	"López Piñero" History of Science and Medicine Institute, Valencia
<b>Modes of Study:</b>	On campus
<b>Languages:</b>	Spanish and Catalan, with certain seminars taught in English
<b>Contact for administrative queries:</b>	<a href="mailto:postgrau@uv.es">postgrau@uv.es</a>
<b>Contact for academic queries:</b>	<a href="mailto:jose.r.bertomeu@uv.es">jose.r.bertomeu@uv.es</a>
<b>Web page:</b>	<a href="http://www.ihmc.uv-csic.es">http://www.ihmc.uv-csic.es</a>
<b>Constitutes the taught phase of a Doctoral Programme:</b>	Yes
<b>Name of Doctoral Programme:</b>	History of Science and Scientific Communication
<b>Further Information on Doctoral Programme:</b>	<a href="http://www.uv.es/postgrau/pdfDO/historiaciencia.pdf">http://www.uv.es/postgrau/pdfDO/historiaciencia.pdf</a>

### Programme Description

The Masters in History of Science and Scientific Communication is organised by the *Instituto de Historia de la Medicina y de la Ciencia López Piñero* (IHMC), a medicine and science history centre affiliated to the University of Valencia and to the *Consejo Superior de Investigaciones Científicas* (CSIC), the Spanish national research council. It is one of the country's longest standing institutes dedicated to the history of science. Situated in a recently renovated historic building, the IHMC houses an exclusive collection of science history books and journals, and an historical legacy principally comprising 16th to 19<sup>th</sup> century medical books. It also contains a museum with both temporary and permanent exhibitions and a collection of more than 3000 medical and scientific instruments. In addition to teaching and research staff of the IHMC the Masters will be taught by lecturers from the journalism section of the University of Valencia's Communication Science and Language Theory Department, and by scientific communication and dissemination experts. Renowned professors from other Spanish and international universities are also expected to participate.



This Masters responds to a growing demand for more rigorous understanding of scientific activity in contemporary society. Science is playing an important role in forming the new knowledge society and there is consequently growing social, economic, academic and media interest in scientific culture. People in general need a critical understanding of the social and cultural significance of science, technology and medicine.

The above mentioned topics issues are approached both through historical research in science, and by studying scientific communication and dissemination. The Masters programme will create professional experts and researchers with up-to date analytic methods. They will be capable of professional employment or research in areas related to the history of science, the technology of medicine, scientific communication and diffusion, scientific information management, and scientific cultural heritage preservation.

## Objectives

1. To provide advanced training in social and historical studies of science.
2. To create researchers able to carry out research projects on the history of science and scientific communication.
3. To offer a critical overview of the historical development of science.
4. To provide information on the processes, workings and means of communicating and disseminating science from a diachronic and synchronic perspective.
5. To encourage a rhetorical and ideological analysis of scientific discourse.
6. To provide information on the production, consumption and evaluation of scientific information.
7. To develop a critical analysis of science and its role in past and present society.
8. To help students understand and value the importance of scientific culture in the knowledge society.
9. To encourage the ability to integrate historical, communicative and discursive perspectives when studying the social aspects of science on a global level.
- 10 To become familiar with information retrieval, and how to use, organise and evaluate archival and bibliographical sources.
- 11 To enable students to develop, produce and present research projects in oral and written form.

## Specific Admission Requirements

The programme is directed at students with a background in human, social, experimental, and health science, and technology. Applicants ideally have an open mind towards knowledge, particularly scientific knowledge, are interested in the socio-cultural dimension of science from both a historical and current perspective, and have the capacity for reflection and critical analysis. They should have good language proficiency, particularly in English and other culturally important languages, for specialised reading purposes. The syllabus of the Masters may be studied on a part time basis, and the workload of each module is spread out over the semester to fit in with work commitments.

## Selection Criteria

There are no formal subject-specific requirements, but the following criteria will be considered:

- Average grade in academic record
- Student collaboration grants
- Courses taken
- Research merits (publications, participation in or attendance at conferences and scientific meetings, participation



in research projects)

- Work experience

Achievements related to the Masters subject (history of science and scientific communication) will be an advantage.

## Career Opportunities

This Masters programme covers an indisputable need for specialised training in various professional fields related to the study of the following: the historical evolution and social role of science and medicine, communication and dissemination of science, scientific rhetoric and discourse, scientific information management, and scientific cultural heritage preservation.

The need to create specialists and researchers in this field is confirmed by various socio-economic factors, such as the rising importance of science and technology's social and cultural dimension; the increase in scientific outreach activities developed by public research organisations, universities, laboratories and R&D centres; the development of scientific journalism and diffusion of scientific, medical and healthcare information in the written and audiovisual media; increasingly popular scientific publications, and the importance of scientific literacy and the comprehension of social perceptions of science. To reiterate, there is growing social, economic, academic and media interest in scientific culture, and science is playing an important role in forming the new knowledge society.

Graduates of this programme may follow an academic pathway in the field of science and scientific communication history by continuing with the doctoral programme. The Masters also provides the necessary preparation for those seeking a professional career in the following areas: scientific journalism and diffusion, scientific terminology, scientific information management, science teaching, scientific museology, and cultural heritage conservation. It will also be useful for any work related to the history of science and scientific communication.

## Study Programme in ECTS Credits

CODE	COURSE NAME	CREDITS
2015	HISTORY OF SCIENCE AND SCIENTIFIC COMMUNICATION	90

<b>FIRST YEAR</b>	<b>60</b>
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### CORE MODULES

60

42329	Introduction to Historical Studies on Science	15
42330	Introduction to Communication and Social Studies on Science	15
42331	Research Techniques and Methods in History of Science and Scientific Communication	15
42332	Science and Medicine in a Social and Historical Context	15

<b>SECOND YEAR</b>	<b>30</b>
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### CORE MODULES

30

42333	Scientific Diffusion and Outreach	10
42334	Analysis of Scientific Information and Discourse	10
42335	Masters final project	10