

**COURSE DATA****DATA SUBJECT****Code:** 46480**Name:** Temas avanzados en historia y comunicación de la ciencia**Cycle:** Master's Degree**ECTS Credits:** 15**Academic year:** 2026-27**STUDY (S)**

Degree	Center	Acad. year	Period
2252 - Master's Degree in History of Science and Scientific Communication	Facultat de Medicina i Odontologia	1	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2252 - Master's Degree in History of Science and Scientific Communication	Temas avanzados en historia y comunicación de la ciencia	ELECTIVES

COORDINATION

GUILLEM LLOBAT XIMO

SUAY MATALLANA IGNACIO

SUMMARY

This module will introduce students to some of the main lines of research currently being carried out in the history of medicine, science and technology, as well as in scientific communication research. After having taken the introductory modules in the first term, students will be able to delve deeper into the most innovative historiographical approaches to the discipline. The lecturers will use their proven research experience to present the historiographical framework in which their respective research is situated and to present their most recent original work. The module will be essential for the subsequent development of research activity. Many of the teaching staff belong to the three universities that offer the Master's degree and will thus enable students to become familiar with our important research community. In addition, the module also includes a number of external lecturers who contribute on topics that, despite their international importance, have not been developed in our local context.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

There are no specified enrollment restrictions with other subjects of the curriculum.

**OTHER REQUIREMENTS****COMPETENCES / LEARNING OUTCOMES****2252 - Master's Degree in History of Science and Scientific Communication**

Analizar e interpretar textos clásicos de la medicina y de la ciencia.

Aplicar métodos de análisis crítico para estudiar fuentes textuales, iconográficas y materiales relacionadas con la medicina, la ciencia y la tecnología.

Aplicar técnicas de búsqueda, identificación, selección y recogida de información especializada.

Comprender las relaciones entre la ciencia, la medicina y la tecnología con las sociedades y las culturas en las que se desarrollan a lo largo de los diversos períodos históricos.

Conocer el desarrollo general de la historia de la ciencia, la medicina y la tecnología en su contexto social y cultural a lo largo del tiempo.

Conocer las biografías de los principales protagonistas del desarrollo de la historia de la ciencia, la medicina y la tecnología.

Conocer las biografías de protagonistas de la ciencia, la medicina y la tecnología en determinados momentos históricos y contextos sociales y culturales.

Conocer las principales tendencias en filosofía y sociología de la ciencia, así como en los estudios de ciencia, tecnología y sociedad.

Conocer y analizar críticamente los procesos de circulación de saberes y prácticas científicas, así como sus principales protagonistas, escenarios, medios, mecanismos y consecuencias.

Conocer y analizar críticamente los procesos de divulgación de la ciencia considerando sus diversos protagonistas, contextos, medios, prácticas, finalidades y resultados.

Conocer y utilizar con destreza las principales fuentes de información relacionadas con la comunicación científica, así como otras herramientas de recuperación de información (principales repertorios bibliográficos y bases de datos).

Diferenciar las principales tendencias en los estudios sobre ciencia, medicina y género.

Discutir y valorar las perspectivas, las controversias y los métodos de trabajo de las principales líneas de la investigación en el área de la información y la comunicación social de la ciencia.

Discutir y valorar las perspectivas, los debates historiográficos y los métodos de trabajo de las principales líneas de investigación histórica en torno a la ciencia, de la tecnología y de la medicina.

Idear, planificar, organizar y redactar un trabajo de investigación.

Identificar las principales fuentes de información relacionadas con la historia de la ciencia, la medicina y la



tecnología así como las herramientas de recuperación de esta información (principales repertorios bibliográficos y bases de datos).

Identificar los principales espacios en los que se desarrolla la actividad científica, tecnológica y médica (laboratorios, aulas, academias, observatorios, entornos naturales, museos, hospitales, fábricas, etc.).

Identificar los principales períodos y contextos geográficos del desarrollo histórico de la ciencia, la medicina y la tecnología.

Identificar y analizar críticamente textos clásicos de la medicina y de la ciencia en sus diversas modalidades.

Presentar en público un trabajo de investigación y debatir sus resultados con otros investigadores.

Recopilar, seleccionar y organizar la información científica especializada.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

DESCRIPTION OF CONTENTS

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The module will be developed in 15 theoretical sessions followed by their respective virtual classroom forums. The sessions are grouped into 5 themes focusing on the historical and social studies of science and science communication. Specifically, three sessions and three forums will be devoted to each of the following topics: Science in transit; experts and laymen; (de)contextualised science; other historiographies; and communication.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theoretical and practical classes	150,00
Total hours	150,00

**NON PRESENCIAL ACTIVITIES**

Activity	Hours
Attendance at other activities	0,00
Individual or group project	0,00
Independent study and work	0,00
Preparation of lessons	0,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	0,00

TEACHING METHODOLOGY

Expository. The aim is to transmit knowledge and activate cognitive processes in students, involving their participation. Each topic in the programme will begin with a three-hour theory session. Students will have received in advance a text or material to facilitate their participation in the session. In this way, the session will combine more expository parts and debates based on the previous readings or on the knowledge acquired in the first semester.

Cooperative learning. The forum will take place after the theoretical session and will be a space for students to discuss and advance collectively in the preparation of the activities to be presented in the portfolio. This process will also involve comments from the teaching staff to redirect the debate or contribute to maturing the concepts necessary to resolve the proposed activity.

Individual work. Each student will have to carry out individual work based on the materials indicated by the teaching staff.

EVALUATION

Students will be assessed according to their participation in the classes, in the debates in the forums, comments in the blogs and with the notebook of activities elaborated throughout the course (text comments, reflections, written reports, etc.), always in accordance with the indications of the professors. This assessment will take the form of:

- Submission of the portfolio duly completed with the activities developed during the class or those commissioned by the teacher [70%].

- Written work and participation in the debate seminars (forums) open during the week and the programme's lecture series [30%]. This activity will not be recoverable in the extraordinary assessment tests.



The usual procedures will be used to confirm the identity of the student and their authorship, applying, where appropriate, the corresponding regulations on plagiarism.

https://www.uv.es/plagio/pginas_web.html

<https://sga.ua.es/es/normativa-academica/ees/evaluacion-de-los-aprendizajes/evaluacion-de-los-aprendizajes.html>

<https://estudios.umh.es/presentacion/normativas/evaluacion-y-progreso-y-permanencia-del-estudiantado-en-la-umh/>

REFERENCES

- Olby, Robert C. "Companion to the history of modern science /". London New York Routledge 1990. Pestre, Dominique / Krige, John. "Companion to Science in the twentieth century". London ; New York Routledge cop. 2003. Huisman, Frank / Warner, John Harley 1953-. "Locating medical history the stories and their meanings". Baltimore The Johns Hopkins University Press cop. 2004. Hackett, Edward J. "The handbook of science and technology studies". Cambridge (Massachusetts) ; London The Mit Press cop. 2008.
- Bowler, Peter J. 1944-. Morus, Iwan Rhys 1964- / Soler, Joan trad. "Panorama general de la ciencia moderna". Barcelona Crítica, D.L. 2007.