COURSE DATA

DATA SUBJECT

Code: 46477
Name: Science, Medicine, Technology and Society
Cycle: Master's Degree / Doctorate
ECTS Credits: 6
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	First quarter
3129 - PhD Social and Hist. Studies on Science, Med.	Escola de Doctorat		First quarter
3129 - PhD Social and Hist. Studies on Science, Med.	Escola de Doctorat		First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2252 - Master's Degree in History of Science and Scientific Communication	Ciencia, medicina, tecnología y sociedad	COMPULSORY
3129 - PhD Social and Hist. Studies on Science, Med.		
3129 - PhD Social and Hist. Studies on Science, Med.		

COORDINATION

SUAY MATALLANA IGNACIO

SUMMARY

The course is organized in six sessions. Each session consists of a general introduction by the professor, followed by a discussion of the main points, as well as a discussion of various issues raised by the teacher in the electronic forums. Capital aspects of the social nature of science, medicine and technology are dealt with, such as the commercialization of science (usually analyzed through examples linked to the pharmaceutical industry); the changing definitions of what science is (usually based on discussions about pseudosciences) and, finally, a session dedicated to a topic of special relevance in the months prior to the module (genetically modified foods, climate change, eugenics.
As it is an interuniversity master's degree, complete information can be found on the master's website, at the following address: http://www.historia-ciencia-comunicacion.org
Prof Resp: Enrique Perdiguero Gil (quique@umh.es)

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.

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

Conocer las características generales de la terminología médica y científica a través del estudio de su historia y su papel en la comunicación científica actual.

Conocer las diversas formas de popularización de la ciencia.

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.

Describir los procesos de producción y consumo del conocimiento científico, así como los mecanismos de comunicación social de la ciencia, con sus diversos medios, espacios y protagonistas.

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

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.).

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 demonstrate self-directed learning skills for continued academic growth.

DESCRIPTION OF CONTENTS

0.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theoretical and practical classes	60,00
Total hours	**60,00**

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

Cooperative learning: Develop active learning through cooperative work strategies between students and fostering shared responsibility to achieve group goals.
Case study: Acquisition of learning through the analysis of real or simulated cases, in order to interpret and solve them, training various alternative solution procedures.
Lecture/Lecture: Transmit knowledge and activate cognitive processes in the student, involving their participation.
Practical works: Reexamine, and put into practice previous knowledge by different readings and works.

EVALUATION

The studens will be evaluated according to their participation in the classes, in the debates in the forums, comments in the blogs and with the activity notebook prepared throughout the course (text comments, reflections, written reports, etc.) , always according to the instructions of the teachers. This evaluation will be substantiated in: - Delivery of the portfolio properly filled in with the activities that take place during the class or those that the teacher orders [70%]. - Written assignments and participation in debate seminars (forums) open during the week and the conference cycles of the program [30%]. This activity will not be recoverable in the extraordinary evaluation 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/eees/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

- Hackett, Edward J. "The handbook of science and technology studies". Cambridge (Massachusetts) ; London The Mit Press cop. 2008. Sismondo, Sergio. "An introduction to science and technology studies. Malden (Massachusetts) [etc.] Blackwell Publishing 2005. Bucchi, Massimiano 1970-. Belton, Adrian trad. "Science in society an introduction to social studies of science". London Routledge 2004.

- Pestre, Dominique / Krige, John. "Companion to Science in the twentieth century". London ; New York Routledge cop. 2003. Yearley, Steven. "Making sense of science [electronic resource] : understanding the social study of science /". London : SAGE, 2005. Chalmers, A. F. "¿Qué es esa cosa llamada ciencia? una valoración de la naturaleza y el estatuto de la ciencia y sus métodos". Madrid Siglo XXI de España 1984-1993. Collins, H. M. (Harry M.), 1943-. Pinch, T. J. (Trevor J.). "The Golem at large [electronic resource] : what you should know about technology /". Cambridge : Cambridge University Press, 2002, c1998. Schiebinger, Londa L. "Has feminism changed science?". Cambridge (Mass.) Harvard University Press 2001. Cooter, Roger / Pickstone, John V. "Companion to medicine in the twentieth century". London ; New york Routledge Taylor and Francis Group 2003. García Dauder, Silvia. Perez Sedeño, Eulalia. "Las "mentiras" científicas sobre mujeres /". Madrid Catarata 2018.