

Degree	Type	Year	Semester
4313223 History of Science: Science, History and Society	OT	0	2

Contact

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Use of languages

Principal working language: catalan (cat)

Other comments on languages

Llengua majoritària de les lectures del mòdul.

Teachers

Antoni Malet Tomás

Agustí Nieto-Galan

Daniele Cozzoli

Jesus Maria Galech Amillano

Silvia de Bianchi

Prerequisites

There are none.

Objectives and Contextualisation

To understand and critically analyze the role of science and technology in today's society, taking into account the historical processes that have shaped them.

To identify the different forms that contemporary science has taken, considering its aims, practitioners, educational institutions.

To get acquainted with the relevant literature on these issues.

To communicate orally and in writing scientific and historical arguments.

Content

1. Presentation
2. The origins of modern science
3. Frankenstein, or the Modern Prometheus

4. Darwin and the historical vision of life
5. Scientific Empires
6. Natural-artificial: industrial chemistry and German hegemony
7. Science and ideology in the age of extremes
8. Science and ideology: the case of Nazism
9. Mathematics and abstraction
10. Mathematics and politics
11. Marie Curie, science, medicine, and industry
12. Einstein and the construction of a scientific icon
13. Two cultures? Science and art
14. Science and literature in the 20th century
15. Science and modernization: Spain 1900-1936
16. Science in a totalitarian regime: Spain 1939-1975
17. Technocracies
18. Penicilin: research, patents and the Cold War
19. Science and the state in the Cold War: the United States and the Soviet Union
20. von Neumann and computation
21. Big Science
22. Elementary particles and the constitution of the Universe
23. Science, secrecy, and diplomacy
24. Science and philosophy
25. Molecules and life
26. Geosciences, surveillance and climate change
27. The commercialization of research
28. Scientific authority in democracy
29. Slow science
30. Conclusions