

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

History of Science

2021-2-E2004P010

Learning	area
	

3: Study of socio-economic and cultural aspects related to communication processes.

Learning objectives

Knowledge and understanding:

- Main concepts and themes on the history of western scientific thought

Applying knowledge and understanding:

- Improvement of the student's cultural background, increasing his critical attitude and awareness of scientific investigation as a tool for the management and solution of collective issues

Contents

The course is divided into two parts.

- a) After some preliminary considerations on the concept of "science" and on the main models of interpretation of its development, the **first institutional part** will examine some fundamental moments of the history of Western scientific thought from antiquity to the 20th century. In this context, particular attention will be paid to the origins and developments of experimental psychology between the 19th and 20th centuries as an interdisciplinary synthesis among philosophy, physics, biology and neurophysiology.
- b) After some preliminary considerations on the concepts of "revolution" and "decentralization", the **second monographic part** will examine three specific revolutions in the history of Western philosophical and scientific thought, together with their consequences in terms of "decentralization" and "change of perspective": the Copernican revolution as decentralization of the world, Darwinian evolutionism as decentralization of man and Freudian psychoanalysis as decentralization of the ego.

Detailed program

a) General part – Fundamentals of history of scientific thought
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Prerequisites

None.

Teaching methods

Teaching methods consist in direct exposure, group discussion, analysis of historically and scientifically significant texts, the development of experiences and/or exercises, and in-depth studies of a seminar nature. *Class attendance is strongly recommended*.

Assessment methods

The verification of learning will be carried out through a written test, divided into a part with multiple-choice questions and a part with open questions. The questions are aimed at testing the effective acquisition of the-topics illustrated during the course, as well as to ascertain the ability to manage the contents of the proposed bibliography and the capability to critically deal with them.

Upon student's request, the exam can be integrated by an oral examination, on all the course topics.

Textbooks and Reading Materials

 Maiocchi, R. (1995). Storia della scienza in Occidente: Dalle origini alla bomba atomica. Firenze: La Nuova Italia (pp. 16-43, 50-61, 71-89, 97-112, 124-126, 128-141, 156-157, 191-202, 207-227, 247-287, 314-321, 326-334, 337-344, 347-348, 365-368, 371-375, 450-451, 454-469) [avaiable on line]. Morabito, C. (2007). Introduzione alla storia della psicologia. Roma-Bari: Laterza (pp. 21-51, 55-85, 115-159).
NB. Additional supplementary materials (e.g. slides) will be made available on the e-learning platform at the end of the course. These supplementary materials are part of the examination program.