UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Philosophy of Science

2021-2-E2401P064

Learning area

Interdisciplinary competences

Learning objectives

Knowledge and understanding

- Developing a critical point of view on scientific research;
- understanding the genesis, the validation and the obsolescence and/or the turnover of scientific theories and hypotheses;
- understanding which views can / cannot be considered scientific on the basis of different scientific criteria;
- providing a qualifying scientific and cultural background.

Applying knowledge and understanding

- Giving well-rooted and in-depth direction to scientific knowledge;

Contents

The course aims to provide a basic knowledge on the philosophy of science by focusing on fundamental problems, such as the nature and the function of scientific laws and theories, the structure of explanation, of prediction and inferences aimed at acquiring scientific knowledge, the relationship between hypotheses and observational evidences, and the question of scientific realism.

In the first part of the course, these problems will be addressed in their general scope, in the second part, they will be developed with attention to the various fields of psychological sciences.

Detailed program

Prerequisites

None

Teaching methods

Teaching method consists of lectures accompanied by a critical discussion with the students on covered topics and concepts

In order to facilitate those students who do not attend classes, the teaching material (slides) is made available on the e-learning webpage of the course.

During the Covid-19 emergency period, lessons will take place online asynchronously, with some live lectures and some synchronous videoconferencing.

Assessment methods

Assessment will consist of a written test 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.

Participation in the optional activities (exercises, conferences, etc.) proposed during the course contributes to the final evaluation (only for attending students).

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

During the Covid-19 emergency period, written exams will take place remotely online through 'esamionline' platform. Supplementary oral examinations will be exclusively held in telematic mode through WebEx platform; a public link will be provided on the e-learning page of the course to permit the public access to exams.

Textbooks and Reading Materials