



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Fisica I

1920-1-E2701Q058

Aims

Scope of the course is the introduction to the physics discipline, specifically to the fundamental knowledge of classical mechanics

Contents

Classical mechanics

Detailed program

Introduction to vectors

Kinematics of a material point

Dynamics of a material point

Mechanical work and mechanical energy

Dynamics of a system of points

Knock-on collisions

Dynamics of a rigid body

Oscillations

Central force fields

Universal gravitation

Fluid mechanics

Mechanical waves

Prerequisites

Knowledge of algebra and analysis (program of the first math course)

Teaching form

Lectures and exercises

Textbook and teaching resource

P. Mazzoldi, M. Nigro, C. Voci, "Elementi di Fisica vol. 1 - Meccanica e Termodinamica" EdiSES

Semester

Second semester (March-June)

Assessment method

Due to the present emergency situation, the exams will be held in oral form; nevertheless, during the interview, the students will be also asked to set up the solution of a few exercises.

Office hours

Upon agreement by email. Moreover, the professor invites students to attend Webex meetings for questions and additional explanations; the meetings take place every wednesday from 15:30 to 17 and the invitations are sent to students through the e-learning platform.

