UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# SYLLABUS DEL CORSO

# Fisica

**2526-1-I0201D129-I0201D186M**

## Aims

At the end of the course, students will have to know basic principles of rigid body mechanics, with the aim of applying them to the movement of body segments.

## Contents

Basic principles of rigid body mechanics, kinematics and kinetics of a point mass, energy, work and power.

## Detailed program

- Vectors and scalars
- Kinematics of a particle
- Parabolic motion
- Forces and dynamics
- Weight and elastic Forces
- Work
- Kinetic energy
- Potential energy and conservation of mechanical energy
- Levers

## Prerequisites

Basic knowledge of mathmatics

## Teaching form

Standard teaching in presence: topics are discussed by the teacher in the classroom
Integrated teaching in presence: students will perform exercises and presentations to deepen the topics proposed by the teacher.

## Textbook and teaching resource

D. Scannicchio, Esercizi e problemi di Fisica, Edizioni Unicopli - D. Scannicchio, Fisica Biomedica, EDISES

## Semester

First semester

## Assessment method

Multiple-choice questions.

## Office hours

By appointment

## Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY