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