UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Physics

2223-1-I0201D129-I0201D186M

Aims

KINEMATICS: The student must be able to: - Describe the physical laws of linear and parabolic motion. - Describe the laws of statics of rigid bodies - Describe the law of conservation of mechanical energy.

Contents

The aim is to teach the student to accurately describe the articular motion of the human body using correct terminology. The course has the objective to develop in the student the knowledge of human motion.

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
- Statics of rigid bodies with application to the human body
- Levers

Prerequisites

Basic knowledge of mathmatics

Teaching form

In person

Textbook and teaching resource

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

Semester

First semester

Assessment method

Written examination with numerical open questions.

Office hours

By appointment

Sustainable Development Goals