UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Applied Physics

2627-1-I0301D037-I0301D002M

Aims

The general aims of the course are to provide students with basic knowledge of Physics, and Physics of radiation, necessary to carry on their profession.

Contents

The aim of the course is to provide students with basic knowledge of Physics and Physics of Radiation

Detailed program

Unit of measurement and changes of the unit of measurement. Vector and scalar quantities. Operations with vectors and vector properties. Concept of force, moment of a force. Equilibrium of a rigid body, examples of the equilibrium of the human body. The levers and their application. Elements of geometrical optics.

Electromagnetic waves and electromagnetic radiation spectrum. Elements of Physical optics: absorption and scattering of light. Beer-Lambert law.

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

D. Scannicchio, Fisica Biomedica, EDISES

D. Scannicchio, Esercizi e problemi di Fisica, Edizioni Unicopli

U.Amaldi, Fisica delle radiazioni, Boringhieri

Teachers will provide other educational material

Semester

First Semester

Assessment method

20 questions (both numerical exercises and multiple choice questions) on Applied Physics and General Physics; 30 questions (both numerical exercises and multiple choice questions) on Radiation Physics to check preparation on the exam programme.

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING