



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Radiation Physics

2425-2-I0202D141-I0202D063M

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#### Aims

The aim of the course is to present the physical structure of atoms, the nature of radiations, and their interactions with matter. The fundamentals of radiation protection will also be addressed.

#### Contents

Structure of atoms, nature of radiations and interactions with matter, radiation protection.

#### Detailed program

Introduction to atoms and radiations  
X-Rays  
Interaction of photons with matter  
Radioactivity  
Biological effects of radiations  
Radiation protection

#### Prerequisites

None

## **Teaching form**

Frontal lessons (1 CFU / 8 hours)

## **Textbook and teaching resource**

Slides of the lessons, provided to students during the course

## **Semester**

First semester

## **Assessment method**

The exam consists of an written assessment, with one open question on one of the topics of the course. No partial exam is foreseen during the course.

## **Office hours**

By email appointment

## **Sustainable Development Goals**

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

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