



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Fisica delle Radiazioni

2122-1-I0201D132-I0201D135M

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#### Aims

Basic concepts of radiation physics, basic concepts of radioprotection

#### Contents

RADIATION PHYSICS: X-ray and radioactivity. Overview of radiation protection and biological effects of ionizing radiations.

#### Detailed program

RADIATION PHYSICS

? X Rays

? Radioactivity

? Alpha, beta and gamma decay

? Interaction of radiations with matter

? Overview of radiation protection

? Biological effects of ionizing radiations

## **Prerequisites**

Objectives of the first year courses

## **Teaching form**

Lectures in attendance or via web according to University indications due to the pandemic emergency

## **Textbook and teaching resource**

1. D. Scannicchio, Fisica Biomedica, EDISES

## **Semester**

Second semester

## **Assessment method**

In the Covid-19 emergency period, written exams will be carried out on the ESAMI-ONLINE platform, with a proctoring system (RESPONDUS). Multiple choice test comprising 5 questions with only one correct answer and Open questions

Oral test (optional, on evaluation of the teacher ). During the Covid-19 emergency period, oral exams will only be online. They will be carried out using the WebEx platform and on the e-learning page of the course there will be a public link for access to the examination of possible virtual spectators.

## **Office hours**

You receive by appointment requested by email

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