



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Radiation Physics

2021-2-I0202D125-I0202D063M

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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 the Covid-19 emergency period, lessons will be held remotely asynchronously with synchronous videoconferencing events

## **Textbook and teaching resource**

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

## **Semester**

First semester

## **Assessment method**

Written exam: quizzes with single / multiple choice and open questions with brief answer.

Final oral exam at the discretion of the teacher or on the student's proposal regarding the project

During the Covid-19 emergency period the exam will take place electronically with proctoring control.

## **Office hours**

You receive by telephone appointment

