

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Radiation Physics

2122-1-I0201D132-I0201D135M

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

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
Secondf 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

? Biological effects of ionizing radiations