



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Radiochemistry

2425-3-I0303D036-I0303D049M

Aims

The student must learn the concepts, laws, methods of radioactive decay, preparation methods and use of radionuclides and radiopharmaceuticals in medicine.

Contents

Provide students with the principles of Radiochemistry and the notions regarding the methods of preparation and use of radionuclides and radiopharmaceuticals in medicine.

Detailed program

Introduction to the laws of radioactive decay and decay modes; methods of producing radionuclides using a nuclear reactor, particle accelerator and generator; main radionuclides used in medicine, and analysis of the factors that determine their use and applications; essential notions on methods of preparing radiopharmaceuticals; aseptic preparations; regulatory foundations that regulate the preparation and use of radiopharmaceuticals in the clinic, and introduction to the preparation and management of quality assurance systems for the preparation of radiopharmaceuticals.

Prerequisites

Teaching form

4 practical lessons of 2 hours carried out in attendance

Textbook and teaching resource

The Teacher will provide educational materials

Semester

First semester

Assessment method

5 multiple choice questions and oral exam

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION
