UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Radiochemistry

2627-3-I0303D036-I0303D049M

Aims

The student is expected to learn about the laws and modalities of radioactive decay, radionuclide preparation methods and selection criteria and main methods of radiopharmaceutical preparation; quality assurance management.

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 by means of nuclear reactor, particle accelerator and generator; main radionuclides used in medicine, and analysis of the factors determining their use and applications; essentials of radiopharmaceutical preparation methods; aseptic preparations; regulatory fundamentals governing the preparation and clinical use of radiopharmaceuticals, and introduction to the preparation and management of quality assurance systems for radiopharmaceutical preparation.

Prerequisites

Teaching form

4 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