

## COURSE SYLLABUS

### Diagnostic Imaging and Radiation Safety

2223-1-I0102D003-I0102D011M

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#### Aims

This course aims to provide the student with the main knowledge on the principles of radiation physics, the modality of radioexposure and the biological risk deriving from exposure to ionizing radiations and the principles of radiation protection, in particular in the hospital environment.

#### Contents

Principles of physics of radiation, biological risks from radiation exposure and principles of radiation protection of patients and health workers.

#### Detailed program

Modalities of radiation exposure in Radiodiagnostics and Nuclear Medicine. General principles of radiation protection. The radiation protection of health workers. Radiation damage. Patient radiation protection. Roles and responsibilities of health workers in radiation exposure. Radiation exposure of patients of childbearing age. Radiation exposures of pediatric patients. Non "occupational" exposures of informed and voluntary people who care for patients.

#### Prerequisites

none

## **Teaching form**

Lessons and tutorials held in mixed way, partially in presence, and/or synchronous and asynchronous videorecorders

## **Textbook and teaching resource**

Slides of the lessons

Recommended book for consultations: F.Giovagnorio. Manuale di diagnostica per immagini nella pratica medica. Esculapio Ed. 2017

## **Semester**

First year - First semester

## **Assessment method**

Multiple choice questions, with only one correct, integrated in the Hygiene, Labor Medicine and Medical Statistics exam aimed at verifying the knowledge on the topics of the module's program

## **Office hours**

On appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY

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