



UNICAMILLUS

## Degree Course in Medical Radiology Techniques for Imaging and Radiotherapy

**INTEGRATED COURSE:** Professional Laboratories (Third Year)

**Number of ECTS Credits:** 1

**SSD:** MEDS-26/B (ex MED/50)

### PREREQUISITES

Musculoskeletal anatomy; principles of physics of radiodiagnostic equipment; radiodiagnostic techniques and methodologies; CT; MRI; Radiotherapy; and Nuclear Medicine.

### EDUCATIONAL OBJECTIVES

In-depth study of radiodiagnostic, CT, MRI, Radiotherapy, and Nuclear Medicine techniques and methodologies.

### EXPECTED LEARNING OUTCOMES

#### Knowledge and Understanding

Through this course, the student will be able to:

- understand radiodiagnostic, CT, MRI, Radiotherapy, and Nuclear Medicine techniques and methods;
- apply patient management procedures;
- understand radiation protection regulations.

#### Applying Knowledge and Understanding

At the end of the course, the student will:

be able to independently perform radiodiagnostic, CT, MRI, Radiotherapy, and Nuclear Medicine examinations using the acquired knowledge.

#### Communication Skills

At the end of the course, the student will:

be able to appropriately use specific technical terminology.

#### Making Judgements

At the end of the course, the student will:

be able to make basic evaluations related to the topics covered.

#### Learning Skills

The student will have acquired appropriate learning skills and methods to further develop and improve their competencies, also through consultation of scientific literature.

**COURSE SYLLABUS**

The aim of the laboratories is to further develop topics covered during lectures by applying them in practical activities.

The methodology is focused on hands-on practice, supported by the supervising lecturer/tutor, and on critical reflection on subsequent activities, in full respect of the safety of healthcare professionals and patients.

**TEACHING METHODS**

The course is delivered through classroom-based lectures.

**ASSESSMENT METHODS**

Grades are awarded upon completion of a written assignment, which the student may submit only after having attended at least 75% of the scheduled activities.

Assessment criteria include: acquired knowledge; autonomy of judgement; communication skills; and learning abilities.

The final oral assessment is evaluated according to the following criteria:

Not Pass: Fragmentary and superficial knowledge of the subject matter; errors in applying concepts; inadequate presentation.

Pass: Sufficient knowledge of the subject matter; clear presentation and confident application of theoretical concepts.

**SUPPORT ACTIVITIES**

Students may request optional seminars to further explore specific topics of interest.

**RECOMMENDED TEXTS AND BIBLIOGRAPHY**

Additional materials will be provided during the course, and further reference texts will be indicated.