



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Mri and Ultrasonography Instruments

2223-2-I0303D035-I0303D051M

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#### Aims

Students are expected to acquire basic knowledge on MR physics and Ultrasonography

#### Contents

The course aims to provide students with basic knowledge of physical principles, techniques and applied aspects of Magnetic Resonance and Ultrasonography.

#### Detailed program

- Genesis and semeiotics of the signal in MRI
- sequences and coils used in MR
- the signal quality in different sequences

#### Prerequisites

Diagnostic Imaging Techniques I

## **Teaching form**

Lectures

## **Textbook and teaching resource**

F. Mazzucato, "Anatomia Radiologica. Tecniche e Metodologie in Radiodiagnostica".

The teachers will provide other educational materials

## **Semester**

Second semester

## **Assessment method**

Written test about the topics of MR Semeiotics in Neuroradiology, MR and US Equipment MR, MR Image Formation and Elaboration and oral test about the topics of the other modules.

The final mark is based on the average score obtained by the students during the different evaluations

## **Office hours**

By appointment required by mail

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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