



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Creation and Processing of Mri Images

2324-2-I0303D035-I0303D054M

Aims

Students are expected to acquire knowledge about genesis of the signal in MRI, about Formation and Processing of Images and algorithms reconstruction

Contents

The course aims to provide students with basic knowledge of physical principles, formation and processing of MR Images

Detailed program

Genesis of the signal in MRI. Formation and Processing of Images MR: K-space image formation and Fourier transform. Digital Imaging: the main features, the image matrix and field of view, image processing and analysis interpolation of raw data, algorithms reconstruction, 2D post processing (MPR), 3D post processing (MIP,SSD,VR,VE).

Prerequisites

Diagnostic Imaging Techniques I

Teaching form

Exercises

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

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
