



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Modelling

1718-1-H4102D004-H4102D011M

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#### Aims

The main objective of the module is to enable students to acquire and deepen their knowledge on about human modelling techniques starting from diagnostic images (e.g., MRI o CT) and from external 3D scanning systems (e.g., laser scanner, motion capture systems).

#### Contents

The module contents concern: techniques and tools to create and use 3D geometric model of human body and anatomical districts at different level of details according to the domain of application.

#### Detailed program

**Human modelling module:** 3D and 2D modeling techniques; Generation of the geometric models of the human body and anatomical districts from medical images, Systems for the acquisition of the human body and motion (e.g., laser scanner e motion capture systems), Examples of applications.

#### Prerequisites

None.

## **Teaching form**

Lessons in class and in laboratory

## **Textbook and teaching resource**

Lectures Slides

## **Semester**

I semester

## **Assessment method**

Oral Examination and Computer tests

## **Office hours**

Thursday, h. 14.30

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