



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Human Physiology

2223-1-I0102D004

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#### Aims

Expand knowledge of human physiology and medical physics through learning from researchers in their fields. There is an emphasis on integrating systems and whole body function, which makes this teaching methodologically very relevant in order to be skillful in nursing and midwifery professions. Biophysics: statics and its applications to the equilibrium of the human body, hydrostatic and hydrodynamic of the circulatory system, physics of radiation. The general aims of the course are to provide students with basic knowledge of Physics and Physics of radiation, necessary to carry on their profession

#### Contents

Human Physiology course aims to give the student the concepts that govern integrated body functions in the living organisms. Emphasis is put on relationships between health and body homeostasis, from the cells to the organ systems. Thus, an attempt will be made to define the limit of physiological adaptation to environmental conditions or to a developing disease. The course also aims to provide the basic principles of biophysics and medical physics needed to understand the biophysical mechanisms underlying the more relevant physiological processes.

#### Detailed program

Refer to the individual modules

#### Prerequisites

Basic knowledge of Chemistry, Biochemistry, and Mathematics.

## **Teaching form**

Lectures

## **Textbook and teaching resource**

Refer to the individual modules

## **Semester**

1st Year, 2nd Semester

## **Assessment method**

Written test. Two tests will be administered, one concerning the part of medical physics and one concerning the part of human physiology. Refer to the individual modules for specific descriptions. The two tests must be passed in the same appeal.

## **Office hours**

Previous appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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