UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biomedical Nanotechnologies and Advanced Therapies

2627-121R011

Aims

The course aims to deepen multidisciplinary knowledge of the various approaches and scientific advances in the field of advanced biomaterials and nanotechnologies designed for the development of modern therapeutic strategies, which offer new opportunities for the treatment of serious diseases for which conventional therapies have proven inadequate. The course has the following objectives: 1) To acquire skills related to biomaterials for tissue engineering and regenerative medicine, highlighting their physical, chemical, biological, and engineering properties, as well as their clinical applications, in order to provide students with the tools needed to identify the most suitable biomaterials for specific functions. 2) To expand knowledge in the biomedical and nanobiotechnology fields in the context of improving the effectiveness of pharmacological therapy. To acquire general skills on nanotechnologies and their current and future applications in industry and research.

Contents

Detailed program

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

Course materials provided by the instructor

Semester

Assessment method

Office hours

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING