

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biomedical nanotechnologies and advanced therapies

2324-76R-NANOBIOMED

Title

Biomedical nanotechnologies and advanced therapies

Teacher(s)

prof. Francesca Re

Language

italian/english

Short description

The course aims to deepen multidisciplinary knowledge of the various approaches and scientific progress in the field of advanced biomaterials and nanotechnologies aimed at the development of modern therapeutic strategies, which offer new opportunities for the treatment of serious diseases and for which conventional therapies have proven inadequate. The course has the following objectives: 1. Acquisition of skills relating to biomaterials for tissue engineering and regenerative medicine, highlighting their physical, chemical, biological and engineering properties and clinical applications, in order to provide the student with the tools to the identification of biomaterials suitable for certain functions. 2. Expand knowledge in the biomedical and nanobiotechnological fields in the context of improving the effectiveness of drug therapy. Acquisition of general skills on nanotechnologies and their present

and future applications in industry and research.

CFU / Hours

1 CFU/8 hours

Teaching period

Second semester

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING