

20 FEB. 2025 — 29 MAY. 2025

ADVANCED TRAINING  
**MEDICAL ADVANCES**  
**SPECIFICS** | 1ST EDITION



**ADVANCED  
EDUCATION  
FOR THE  
FUTURE**

SINCE 1977

## **WHY TAKE A COURSE IN MEDICAL ADVANCES SPECIFICS?**

This course is designed for those who wish to understand and address the key challenges and needs in healthcare, particularly in areas such as chronic diseases, cancer, cardiovascular conditions, and musculoskeletal disorders. It equips students with the knowledge to integrate these insights into the development of innovative health technologies, including medical devices, digital health solutions, medication management, and biotechnological innovations.

Students will also learn how to implement these solutions in healthcare settings, whether through start-ups, established companies, or other channels. The course provides a foundational understanding of the Stanford Biodesign Innovation process, as well as the ethical and regulatory aspects of clinical research critical for the development and application of health technologies.

Through direct exposure to clinical practice, students will gain practical experience that bridges theoretical knowledge and real-world healthcare needs. By the end of the module, participants will have the skills to develop innovative solutions that address significant health problems, with a particular focus on non-communicable chronic diseases.

**1ST EDITION**

**ECTS**

Application deadline: **February 10, 2025**

## LEARNING OBJECTIVES

1. Promote knowledge and reasoning about key challenges and needs in healthcare, focusing on chronic diseases, cancer, cardiovascular conditions, and musculoskeletal disorders
2. Integrate this knowledge into the creation of innovative health technologies, including medical devices, digital health solutions, medication management, and biotechnological innovations
3. Develop skills for implementing these technologies in healthcare through start-ups, companies, or other channels
4. Provide knowledge on the fundamental concepts of the Stanford Biodesign Innovation process, as well as ethical and regulatory aspects of clinical research needed for the development and implementation of health technologies
5. Ensure students understand these topics through direct exposure to the reality of clinical practice
6. Equip students with the skills to develop innovative solutions addressing health challenges, particularly in the field of non-communicable chronic diseases

## COORDINATION



**Ana Maria Rodrigues**

## FACULTY

**Ana Maria Rodrigues**

**Ana Rita Londral**

**Carlota Santos**

**Elsa Frazão Mateus**

**Hélder Dores**

**Isabel Fernandes**

**Joana Alves**

**João Conde**

**Lúcia Domingues**

**Maria José Santos**

# PROGRAMME

**IN-PERSON**

**35.5H**

**THEORETICAL AND PRACTICAL SESSIONS**

**20/02/2025**

**16H00 - 20H00**

- Introduction and fundamentals of the Sandford Biodesign Innovation process
- Needs Findinds in clinical settings - Chronic non communicable diseases as major challenges in medicine innovation on diagnostic, treatment and quality of care

**27/02/2025**

**16H00 - 19H00**

- Functioning of the Healthcare systems, barriers and facilitators for innovation adoption

**06/03/2025**

**16H00 - 19H00**

- Musculoskeletal diseases management challenges. What are the needs?
- Living with a musculoskeletal diseases. What are the needs? The role of patient research partners in innovation
- Discussion

**13/03/2025**

**16H00 - 19H00**

- Cancer treatment and diagnostic caveats. What are the needs?
- Using science to solve cancer needs
- Discussion about challenges and opportunities to innovate in cancer field



# PROGRAMME

**IN-PERSON**

**35.5H**

**THEORETICAL AND PRACTICAL SESSIONS**

**03/04/2025**

**16H00 - 19H00**

- Improving diagnostic and treatment in cardiovascular diseases. What are the needs?
- Using tech innovation to solve cardiovascular diseases needs
- Discussion about challenges and opportunities to innovate in cardiovascular diseases

**10/04/2025**

**14H00 - 19H00**

- Cancer clinics visit and contact with patients and healthcare professional needs - CUF Tejo

**24/04/2025**

**14H00 - 19H00**

- Cardiology clinics visit and contact with patients and healthcare professional needs - Hospital da Luz

**15/05/2025**

**16H00 - 20H00**

- Drug and medical devices clinical testing process
- Ethics and regulation in medical research

**29/05/2025**

**16H00 - 18H00**

- Final exam



## APPLICATION REQUIREMENTS

This course is open to all non health professionals interested in the health sector (engineers, managers and other professionals)

## APPLICATION DOCUMENTS

CV  
Certificate of qualifications

## NUMERUS CLAUSUS

30

## ADMISSION CRITERIA

Curriculum evaluation  
Order of application

## ATTENDANCE

Minimum of 2/3 of the classes

## LANGUAGE

Portuguese  
English

## TUITION

Application fee: **51 €**  
Course fee (including enrollment fee + tuition fee + insurance): **350 €**

## PROGRAM MANAGER



**EDUARDO PARREIRA**

## ADDITIONAL INFORMATION

For more details, please contact the Program Manager:

T: (+351) 910 959 816 | Ext: 21523

formacaoavancada@nms.unl.pt

Campo Mártires da Pátria, 130 1169-056

Lisboa – Portugal

[www.nms.unl.pt](http://www.nms.unl.pt)