

AHED - Advanced Health Education  
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/ MULTIPROFESSIONAL CARE  
INTEGRATION CHALLENGES

# HOME CARE / SMART AMBIENT ASSISTED LIVING TECHNOLOGIES

20-102



Advanced  
Health  
Education  
by NOVA Medical School

# HOME CARE / SMART AMBIENT ASSISTED LIVING TECHNOLOGIES

20-102

**COURSE COORDINATOR** >> Ana Rita Londral, Eng, PhD

## COURSE PRESENTATION

This course aims to train health professionals to implement projects for smart assisted living, with a focus on home care and telemonitoring, using patient-centred principles.

Participants will learn the basic principles of telemonitoring technologies and Internet of Things (IoT), the main modules of a home care system infrastructure, and the most relevant issues related to outcomes measurement and data management and security. Participants will gain skills to co-design new smart assisted living projects in their professional environment. Economic and social impacts of smart assisted living technologies will be discussed.

The hands-on activities will give the students the opportunity to experiment with mobile apps for telemonitoring and IoT devices, to learn about devices' synchronisation and other technical and usability issues, and to try practical data management tools.

At the end of the course, participants will design a new project taking into account a use case that will be proposed by the faculty or the participant him/herself.

## LEARNING OBJECTIVES >> KNOWLEDGE AND SKILLS TO DEVELOP

- 1 To know, in the perspective of a healthcare professional, the state of the art of smart living and telemonitoring technologies applied to the health care sector.**
- 2 To access to a portfolio of implemented projects and case-studies of home care using smart assisted living technologies and methods.**
- 3 To test, experiment, and interconnect devices and apps that are available in the health care market.**
- 4 To know the main future challenges of home care related to data protection issues, technology acceptance, costs, business models, among others.**
- 5 To co-design a project to implement tele monitored home care for a specific health care context.**

## TARGET AUDIENCE

All relevant health care professional categories.

## ADMISSION CRITERIA

>> CV and Motivation Letter

## ATTENDANCE REQUIREMENTS

80% attendance is mandatory for issuing attendance certificate and CME credits and/or ECTS

## MAX. ATTENDEES

>> 30

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## AGENDA

**2020 / OCTOBER**

### OCT 2<sup>ND</sup>

9:00 am - 6:00 pm

@ Nova Medical School (Campo de Santana)

#### >> Home care and Telemonitoring

Connected homes and smart cities:  
a new generation of home care  
opportunities.

New digital methods to connect patients  
and collect outcomes.

Clinical, social and economic impact  
of Home care projects (case studies,  
scientific results).

#### >> Devices and systems' design for Smart Assisted Living

Devices and systems' design  
for Smart Assisted Living

Wearables and Internet of Things  
in Health care: how they work; examples  
of real applications.

Co-creation methodologies. Patient centred  
perspectives on the use of technology.

#### >> Basic concepts in health data management

Health data. Privacy and security:  
policies and practices.

Platforms for IoT Digital Health.

Tools for health data collection,  
transmission, storage and analysis.

Opportunities of 5G in Home Care.

### OCT 3<sup>RD</sup>

9:00 am - 6:00 pm

@ Nova Medical School (Campo de Santana)

#### >> Hands-on experience

Lab work 1: Wearables and IoT devices.

Lab work 2: Mobile apps.

Lab work 3: Data outcomes collection  
and visualization.

#### >> Project design in Smart assisted living: from user needs to ecosystem design and devices

Project design.

Presentations of the projects.

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## FACULTY

- >> Ana Rita Londral, PhD
- >> Ana Correia de Barros, PhD
- >> Inês Sousa, PhD

**CREDITS >> 1 ECTS**



**DURATION >> 16 HOURS**

**PRICE >> 590€**

## INCLUSIONS AND EXCLUSIONS IN PRICE

The price published for each course includes teaching fees, space rental, certificate of attendance, and materials used during the course. The price of the course doesn't include hotel accommodation, lunches, and dinners on course days, nor any other items unless specifically mentioned. Prices of courses published by AHED are exempted of VAT. Other items priced by AHED apart from courses may however include VAT.

## APPLICATION, ADMISSION AND REGISTRATION

When applying for a course at AHED – Advanced Health Education, the applicant subjects personal and professional data that will be verified and assessed to check that admission criteria for that specific program are met. Once an application is approved, registration in the course is admitted and will require payment of the price published for the course.

## APPLICATION FEES

Application fees are as follows:

- 100 € for courses priced above 1000 €
- 50 € for courses priced below equal to 1000 €

Application fees are non-refundable.

## COURSE REGISTRATION FEES

The registration stage is considered completed when the total price of the course is received by AHED.

## PAYMENT OPTIONS

Payment options for application and registration include credit card (Visa, MasterCard), wire transfer in Euro, and Multibanco.

## EARLY BIRD

Application fees will be discounted from the course price for registrations completed 90 calendar days before the date of the course.

For additional information, please go to in Terms and Conditions at [ahed.pt](https://ahed.pt)

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20-I02

APPLICATION DEADLINE >> SEPTEMBER 2<sup>ND</sup> 2020

## INSTITUTIONAL PARTNERSHIPS

**NOVA**

MEDICAL  
SCHOOL  
FACULDADE  
DE CIÊNCIAS  
MÉDICAS

**VOH** value  
for health  
**colab**

 **Fraunhofer**  
PORTUGAL

  
**vodafone**

## SCIENTIFIC PARTNERSHIPS



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