e-Health Eurocampus

Erasmus+

IT for Physical and Cognitive Disabilities

3rd eHealth Eurocampus Summer School
Barcelona, 1 - 13 July

This two weeks Intensive Study Programme will be attended by 60 IT and medical students from 7 universities from 5 countries, which form the eHealth Eurocampus partnership: Universitat Politècnica de Catalunya-BarcelonaTech, University of the Balearic Islands, ISIS Engineering School (Castres), University of Montpellier, Wrexham Glyndwr University (Wales), University of Applied Sciences of Ulm, University of Cyprus, and Sant Joan de Déu University School of Nursing (University of Barcelona).

The programme will be held in English at Universitat Politècnica de Catalunya - BarcelonaTech. Students will have 3 ECTS recognised and will receive a Certificate of Participation.

In each partner university, a strict selection process will be implemented and the expenses of inscription, travel and subsistence will be covered by the European Commission through the Erasmus+ Programme.

The Summer School will lay special emphasis on eHealth solutions for physical and cognitive disabilities. It will bring together IT and Health students that will develop and test solutions related to robotics, graphics, serious games, virtual reality and medical imaging. Learners will attend practical sessions in medical robotics labs and will go on visits to several research centres and to the prestigious Sant Joan de Déu Hospital.

Objectives

- Considering human factors as part of the inputs to a project to be developed.
- Analysing a problem and identifying the project requirements.
- Selecting the adequate control strategy for each robot project.
- Acquiring basic know-how on technologies involved in the development of virtual environments and serious games.
- Designing, developing, and implementing suitable virtual environment and serious games.

Topics

- Human robot interaction in medical robotics.
- Assistive and rehabilitation robotics.
- Improving cognitive and communication skills
- Serious Games and Game Based Learning.

Euroregió Pirineus Mediterrània
Eurorégion Pyrénées-Méditerranée
Eurorregión Pirineos Mediterráneo

University of Cyprus

UC Institut National Universitaire Champollion

Wrexham glyndŵr UNIVERSITY

FundacióBit
Fundació balear d'innovació i tecnologia

Hochschule Ulm

UIB Universitat de les Illes Balears

Sant Joan de Déu
Research Foundation

In collaboration with:

UPC UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH