Advanced Technologies in Rehabilitation

International Master for Physiotherapists, Occupational Therapists and Bioengineers 2020-2021

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Introduction

For several years bioengineering has been developing new technologies in the field of rehabilitation and the number of biomedical articles on their efficacy is on the increase. The need to be tuned into how these new technologies are used has recently come to light thanks to the development of Telerehabilitation, prompted by the COVID-19 pandemic. Only collaboration between bioengineering and rehabilitation will allow for the integration of biomechanics, neurophysiology and the rationale of physiotherapy planning to further the development and spread of technologies.

The aim of the Master's programme is to introduce the rationale, scientific evidence and the applications of technologies used in motor rehabilitation.

Providing Institution

The Master is promoted by the Department of Biomedical Sciences of Humanitas University, in collaboration with the Politecnico of Milan and the contribution of researchers from the Politecnico of Turin and, Scientific Institute Don Gnocchi Foundation and the School of Advanced Studies Sant'Anna of Pisa.

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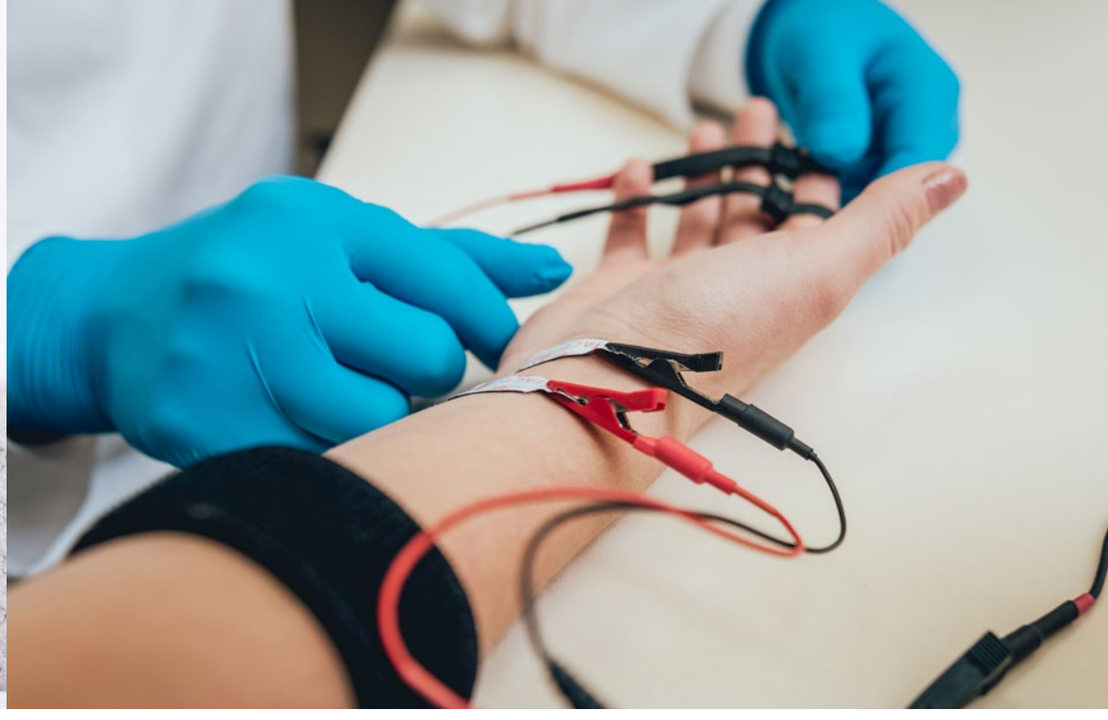
ASSOCIAZIONE ITALIANA FISIOTERAPISTI A.I.FI.

SIAMOC Società Italiana di Analisi del Movimento in Clinica

SIF Società Italiana di Fisioterapia



Information

Starting date: January 2021
Duration: 1 year
Language: English
Available places: 20-30 places, assigned through a qualifications-based selection
Online applications: open until November 23rd, 2020
Costs: € 3.500
Location: Humanitas University, Pieve Emanuele, Milan

Master planning

To be awarded the Master's diploma of 60 ECTS (1 ECTS = 25 hours) must be obtained. The credits will be allocated as indicated in the following modules and activities:
Acquisition and analysis of bioelectric and myoelectric signals (8 ECTS); Instrumental analysis of motor performance (16 ECTS); Technologies to support therapeutic exercise (20 ECTS); Thesis (6 ECTS); Internship (10 ECTS).

Scientific Board

Dr. Davide Cattaneo (Don Gnocchi Foundation, Milan), prof. Christian Cipriani (School of Advanced Studies Sant'Anna, Pisa), prof. Maria Laura Costantino (Politecnico of Milan), prof. Dario Farina (Imperial College London), prof Raffaello Furlan (Humanitas University), prof. Carlo Frigo (Politecnico of Milan), prof. Manuela Galli (Politecnico of Milan), prof. Marco Gazzoni (Politecnico of Turin), dr. Johanna Jonsdottir (Don Gnocchi Foundation, Milan), prof. Roberto Merletti (Politecnico of Turin).

Candidate

Physiotherapists and occupational therapists enabled to clinical practice and bioengineers.

Directors

Prof Maria Chiara Carrozza

Prof Roberto Gatti

Faculty

- Adamo Paola, Humanitas Hospital, Rozzano
- Barbero Marco, SUPSI, Lugano Switzerland,
- Buccino Giovanni, Vita-Salute San Raffaele University, Milan
- Baglio Francesca, Don Gnocchi Foundation, Milan
- Benedetti Maria Grazia, Rizzoli Orthopedic Institute, Bologna
- Bertoni Rita, Don Gnocchi Foundation, Milan
- Bolzoni Francesco, Humanitas University, Pieve Emanuele
- Botter Alberto, Politecnico of Turin (Lisin)
- Campanini Isabella, Azienda USL-IRCCS di Reggio Emilia
- Caronni Antonio, Don Gnocchi Foundation, Milan
- Carrozza Maria Chiara, Don Gnocchi Foundation and School of Advanced Studies Sant'Anna, Pisa
- Cattaneo Davide, Don Gnocchi Foundation, Milan
- Cerone Giacinto Luigi, Politecnico of Turin (Lisin)
- Cipriani Christian, School of Advanced Studies Sant'Anna, Pisa
- D'Avella Andrea, University of Messina
- Farina Dario, Imperial College, London
- Fesce Riccardo, Humanitas University, Pieve Emanuele
- Ferrante Simona, Politecnico of Milan
- Frigo Carlo, Politecnico of Milan
- Furlan Raffaello, Humanitas University, Pieve Emanuele
- Galli Manuela, Politecnico of Milan
- Gatti Roberto, Humanitas University, Pieve Emanuele
- Gazzoni Marco, Politecnico of Turin (Lisin)
- Gervasoni Elisa, Don Gnocchi Foundation, Milan
- Jonsdottir Johanna, Don Gnocchi Foundation, Milan
- Maffiuletti Nicola, Schulthess Clinic, Zurich, Switzerland
- Mazzoleni Stefano, School of Advanced Studies Sant'Anna, Pisa and Politecnico of Bari
- Merletti Roberto, Politecnico of Turin (Lisin)
- Merlo Andrea, MerloBioEngineering, Reggio Emilia
- Natali Fabrizio, Humanitas Hospital, Rozzano
- Petrarca Maurizio, Children's Hospital, Rome
- Piccinini Luigi, La Nostra Famiglia Association, Bosisio Parini
- Riener Robert, Sensory-Motor Systems Lab, ETH, Zurich
- Temporiti Federico, Humanitas University, Pieve Emanuele
- Turolla Andrea, San Camillo Hospital, Venice
- Vieira Taian, Politecnico of Turin (Lisin)
- Zago Matteo, Politecnico of Milan

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Further information
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