



MASTER'S DEGREE IN NEUROREHABILITATION (60 ECTS) INSTITUT GUTTMANN by the Universitat Autònoma de Barcelona

4th EDITION 2022-2023

The main objective of the master's degree is for students to acquire the specialized knowledge and skills necessary to address the assistance of the patient with spinal cord injury, acquired brain injury or another neurological disability, in a global and integral manner, in adult and pediatric age. From a physical, psychic and social dimension, optimize the generation and transfer of new knowledge in the specialized field of neuroscience and neurorehabilitation.

It is structured in 60 ECTS, to be done in an academic year.
All classes will be taught at the Institut Guttmann.

M01: Neurorehabilitation and physical activity

The bio-psycho-social model | Quality in Neurorehabilitation | Hospital discharge planning | Physical activity and sport as a rehabilitation tool | The competitive sport | Sport as a means of socialization and maintenance of health

M02: Neuroscientific bases

Structure and function of the nervous system | Methods of evaluation of the nervous system | Physiopathology and mechanisms of Nervous System injuries

M03: Research and Innovation in Neurorehabilitation

Research lines and scientific evidences | Methodological tools to develop research projects | Biomedical data storage and analysis programs | Ethical principles in human and experimental research | Definition of innovation, presentation of new technologies in rehabilitation and methodology for the definition of clinical requirements



M04: Physiopathology and therapeutic approach of Spinal Cord Injury

Epidemiology and clinic of SCI | Neurological exploration | Clinical and surgical treatment | Therapeutic approach of the main complications

M05: Physiopathology and therapeutic approach of Brain Damage and neurodegenerative diseases in adults and children

Epidemiology, diagnosis and Neurorehabilitation treatment of TBI | Epidemiology, diagnosis and neurological treatment and rehabilitation of the ICTUS | Introduction to diagnosis, evaluation and Neurorehabilitation treatment of

neurodegenerative diseases | Neuropsychological rehabilitation | Diagnosis and treatment of neurogenic dysphagia | Logopedic rehabilitation.

M06: External Practices

Practices in the in the care areas of the Institut Guttmann: medical area, nursery area , functional rehabilitation area (gym, occupational area, swimming pool, musicotherapy, walking laboratory, computer room, etc.), area of neuropsychology and in the research areas

M07: Master's Final Project

Prepare a project in the field of Neurorehabilitation and defend it before a court.



MODULES	ECTS	DATES
Neurorehabilitation and physical activity	6 ECTS	Sep. 26 th – 30 th and Oct. 03 rd – 07 th 2022 (morning)
Neuroscientific bases	6 ECTS	Nov. 07 th – 11 th and 14 th – 18 th 2022 (morning)
Research and Innovation in Neurorehabilitation	9 ECTS	Dec 19 th – 23 th 2022 and Jun. 05 th – 09 th 2023 (morning and afternoon)
Physiopathology and therapeutic approach of Spinal Cord Injury	9 ECTS	Jan. 23 th – 27 st and Feb. 20 th – 24 th 2023 (morning and afternoon)
Physiopathology and therapeutic approach of Brain Damage and neurodegenerative diseases in adults and children	12 ECTS	Mar. 13 th – 18 th , Apr. 17 th – 21 th and May 15 th – 19 th 2023 (morning)
External Practices	9 ECTS	Will be specified in tutoring
Master's Final Project	9 ECTS	Will be specified in tutoring

Application for admission through www.uab.cat

More information in the Teaching section of the website www.guttmann.com

Coordinator: Dr. Joan Vidal. Doctor in Medicine. Cathedatic. Specialist in Physical Medicine and Rehabilitation. Teaching Director of the Institut Guttmann.

Teaching secretary - I. Guttmann

Camí de Can Ruti, s/n 08916 Badalona

Tel: 93 497 77 00 ext.: 2360 / 2350

Fax: 93 497 77 15

Schedule: Work days from 8,15h to 17,00h

docencia@guttmann.com



UAB

Universitat Autònoma de Barcelona

Institut Guttmann

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