

**COURSE DATA****Data Subject**

<b>Code</b>	44636
<b>Name</b>	Developments in physiotherapy in neurological pathologies
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2024 - 2025

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>	<b>year</b>
2220 - Master's Degree in Functional Recovery in Physiotherapy	Faculty of Physiotherapy	1	Second term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
2220 - Master's Degree in Functional Recovery in Physiotherapy	5 - Developments in physiotherapy in neurological pathologies	Optional

**Coordination**

<b>Name</b>	<b>Department</b>
SANCHEZ SANCHEZ, MARIA LUZ	191 - Physiotherapy

**SUMMARY**

This course aims to provide students with the tools, techniques and skills to establish specific treatment plans based on pathology or experienced neurological disorder.

**PREVIOUS KNOWLEDGE****Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.



## Other requirements

### 2220 - Master's Degree in Functional Recovery in Physiotherapy

- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- Ser capaz de promover la educación sanitaria entre los diferentes componentes del equipo transdisciplinar de trabajo.
- Ser capaces de obtener y de seleccionar la información específica y las fuentes relevantes para la resolución de problemas, elaboración de estrategias y planes de actuación, asesoramiento y ejecución de las diferentes actuaciones fisioterápicas en los ?ámbitos de la recuperación funcional.
- Saber aplicar los conocimientos adquiridos y ser capaces de resolver problemas en entornos nuevos, o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con las técnicas fisioterápicas en los distintos niveles de asistencia sanitaria en el tratamiento físico de las patologías y lesiones concretas cuyo nivel de especialización requerido es mayor.
- Ser capaces de aplicar correctamente las diferentes metodologías disponibles basadas en la evidencia en el tratamiento de las patologías y lesiones que nos ocupa.
- Ser capaces de dar a conocer a los pacientes la importancia que la salud y los estilos de vida saludable tienen en la prevención primaria y secundaria así como en la mejora de las diferentes patologías y lesiones concretas.
- Ahondar en el tratamiento de fisioterapia específico según las características de la patología.

At the end of the course the student should be able to apply the different techniques of neurological physiotherapy studied in the subject and know the reliability and validity of them.

## DESCRIPTION OF CONTENTS

### 1. Advances in neurological physiotherapy

Methods of neuromuscular facilitation; Sensory-motor stimulation method; Reflex locomotion method. Neurodynamics.

Postural reeducation and movement through postural reflexes and specific physical exercise adapted to the functional alterations caused by neurological pathology.



## WORKLOAD

ACTIVITY	Hours	% To be attended
Laboratory practices	24,00	100
Theory classes	12,00	100
Study and independent work	74,00	0
Preparing lectures	20,00	0
Preparation of practical classes and problem	20,00	0
<b>TOTAL</b>	<b>150,00</b>	

## TEACHING METHODOLOGY

Theoretical-practical face-to-face classes in which the contents of the subjects will be worked on, discussed and carried out using different teaching resources.

The individual and collective tutorials should serve as a means to coordinate the students in the individual and group tasks.

## EVALUATION

Assessment system	Percentage of qualification
Assistance and participation at class. This evaluation system takes into account the implication of the student in the classroom. It will be taken into account that the student responds to the questions formulated by the teacher, raises interesting debates about the information imparted in class, formulates doubts after having reviewed the previously received concepts and/or proposes activities that may be of interest for the dynamics of classroom.	20%
Theoretical-practical final test. This test will integrate the knowledge acquired during each of the subjects. Contents that may be conceptual or procedural. The exam may be written or oral depending on the nature of the subject taught.	80%



The final mark of the subject will be the weighted average of the different parts of the evaluation, as long as the student has obtained at least a 50% of the maximum mark in each of the tests.

## REFERENCES

### Basic

- Butler DS. The Sensitive Nervous System. Adelaide, Australia: Noigroup Publications; 2000.
- Paeth Bettina. Experiencias con el Concepto Bobath: fundamentos, tratamientos, casos. Madrid. Médica Panamericana (2000)

### Additional

- Sue Raine, Linzi Meadows, Mary Lynch-Ellerington. Bobath Concept: Theory and clinical practice in neurological rehabilitation. United Kingdom Blackwell Publishing Ltd. 2009