COURSE DATA

Data Subject	
Code	33027
Name	Physiotherapy in clinical specialities IV
Cycle	Grade
ECTS Credits	6.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. year	Period
1202 - Degree in Physiotherapy	Faculty of Physiotherapy	3	Second term

Subject-matter

Degree	Subject-matter	Character
1202 - Degree in Physiotherapy	14 - Physiotherapy in clinical specialties	Obligatory

Coordination

Name	Department
CEZON SERRANO, NATALIA	191 - Physiotherapy
SANCHEZ SANCHEZ, MARIA LUZ	191 - Physiotherapy

SUMMARY

The subject Clinical Specialties IV will guide the student to a field of highly specialized physiotherapy. The student will learn to evaluate and treat diseases such frequent and disabling as brain damage and other nervous affections. Also, the student will know the special characteristics of infant physiotherapy.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

It is not necessary previous requirements.

OUTCOMES

1202 - Degree in Physiotherapy

- Respect fundamental rights and equality between men and women.
- Recognise diversity, multiculturality, democratic values and peace culture.
- Have the ability to organise and plan work.
- Know how to plan treatment goals in the different clinical specialities of Primary Care and in the different stages of cognitive-motor development from the Physiotherapy Clinical Records.
- Know how to establish a therapeutic plan to reach the goals from the Physiotherapy Diagnosis, established in accordance with internationally recognised standards and international validation instruments.
- Know how to apply the different physiotherapy techniques of promotion, prevention and health preservation in Primary Care, in the different stages of cognitive-motor development, and the proprioceptive methods, soft tissue techniques and motor re-education methods in in nervous system disorders.
- Know how to assess the applied physiotherapy treatment and write the Discharge report.
- Know how to assess the results of the physiotherapy treatment.
- Know and apply good clinical practice guides.

LEARNING OUTCOMES

At the end of the course the students will be able to:

1.Design a physiotherapy intervention plan on disorders of the nervous system and in different stages of cognitive-motor development that incorporates the ability to make decisions and problem solving, all with a critical and inclusive of teamwork and based on scientific evidence.

2.Evaluate the evolution of the results obtained with physiotherapy treatment in diseases of the nervous system and the different stages of cognitive-motor development in relation to the objectives and performance criteria established.

DESCRIPTION OF CONTENTS

1. Physiotherapy at different stages of cognitive-motor. 12h.

Topic 1.- Assessment and psychomotor development of the baby I.
Topic 2.- Assessment and psychomotor development of the baby II.
Topic 3.- Physiotherapy techniques of neurofacilitation in major neurological damage in infancy I.
Topic 4.- Physiotherapy techniques of neurofacilitation in major neurological damage in infancy II.
Topic 5.- Physiotherapy in neonatology.
Topic 6.- Physiotherapy in Early intervention.
Topic 7.- Physiotherapy in Cerebral Palsy.
Topic 8.- Physiotherapy in the Spina Bifida.
Topic 9.- Physical Therapy in Down Syndrome.
Topic 10.- Physiotherapy in Arthrogryposis.
Topic 11.- Physiotherapy in Obstetrical Brachial Palsy.
Topic 12.- Physiotherapy in congenital torticollis and/or plagiocephaly.

2. Physiotherapy in disorders of the nervous system III. 18h.

Topic 13.- Physiotherapy assessment in major neurological damage in adults I.
Topic 14.- Physiotherapy assessment in major neurological damage in adults II.
Topic 15.- Motor rehabilitation methods in diseases of the nervous system I.
Topic 16.- Motor rehabilitation methods in diseases of the nervous system II.
Topic 17.- Motor rehabilitation methods in diseases of the nervous system III.
Topic 18.- Proprioceptive methods in nervous system disorders.
Topic 19.- Soft tissue techniques in nervous system disorders.
Topic 20.- Physiotherapy in the orofacial dysfunction.
Topic 21.- Virtual Reality and Robotics in neurorehabilitation.
Topic 22.- Physiotherapy in the minimally conscious state.
Topic 23.- Physiotherapy in stroke.
Topic 24.- Physical therapy in traumatic brain injury.
Topic 25.- Physical therapy in diseases of motor neurons. Physiotherapy in Amyotrophic Lateral Sclerosis.
Topic 26.- Physiotherapy in Parkinson's disease.
Topic 27.- Physical Therapy in Multiple Sclerosis.
Topic 28.- Physiotherapy in cerebellar lesions.
Topic 29.- Physiotherapy in the lesions of the basal ganglia. Korea. Athetosis.
Topic 30.- Physiotherapy in dementia. Alzheimer's disease.

3. Practical program. 30h.

Practice 1.- Assessment and psychomotor development of children.
Practice 2.- Physiotherapy techniques in pediatrics. Clinical cases.
Practice 3.- Motor rehabilitation methods in diseases of the nervous system I.
Practice 4.- Motor rehabilitation methods in diseases of the nervous system II.
Practice 5.- Proprioceptive Methods in nervous system disorders I.
Practice 6.- Proprioceptive Methods in nervous system disorders II.

Practice 7.- Other physiotherapy techniques in nervous system disorders.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Laboratory practices	30,00	100
Development of individual work	20,00	0
Preparation of evaluation activities	31,00	0
Preparing lectures	25,00	0
Preparation of practical classes and problem	14,00	0
TOTAL	**150,00**	

TEACHING METHODOLOGY

The theoretical teaching will take place in the classroom with exposure of the agenda (type master class with participatory activities). Students will know in advance the topics in order to answer questions, concepts, and encourage their participation.

In the practical program, students will learn by solving problems and exercises, group activities and case studies, and they will train in skills and procedures used in physical therapy at different stages of cognitive-motor development and the proprioceptive methods, techniques of soft parts and motor re-education methods in diseases of the nervous system, using simulation techniques. Work in small groups will be stimulated.

The teaching program might be modified during the development of the subject if the professor considers it appropriate, in order to guarantee the teaching quality and the learning process.

EVALUATION

Theoretical program (50% of the final mark). There is the option to choose an evaluation system:

Option A:

1.Final written test: a) Multiple choice test of 40 questions (30%), Mark=[hits-(errors/nº options-1)]* (maximal mark/nº questions); b) 4 short questions of development (20%).

Option B:

1.Final written test: a) Multiple choice test of 20 questions (15%), Mark=[hits-(errors/nº options-1)]* (maximal mark/nº questions); b) 4 short questions of development (10%).

2.Continuous assessment tests. During the theoretical classes various continuous assessment tests will be carried out. In order to qualify them, they must be submitted within the established period (25%).

In order to take option B (which includes a part of continuous evaluation), the student must commit in writing to it before March 1. In addition, they must attend 85% of the theoretical classes and adequately justify the inability to attend (the remaining 15%) due to the concurrence of a cause of force majeure. Otherwise, the student will take the final written test (option A).

Practical program (50% of the final mark)

1.Oral examination (35%). Simulation of the techniques exposed in the practices and resolution of practical cases.

2.Self study (10%). Presentation of portafolios. Mandatory.

In order to qualify for self-employment tasks, they must be submitted within the established period.

3.Attendance at practices 100% of the hours (5%). The student shall be deemed to have fulfilled if he/she has attended a minimum of 85% of the practices and has adequately justified the impossibility of attending the remaining sessions due to the concurrence of a force majeure.

The final score for the subject will be averaged provided that the student has obtained at least 5 of 10 in each of the blocks theoretical and practical. All written tests will penalize the incorrect spelling. In order to be able to qualify the tasks of autonomous work they must be submitted within the established term.

Plagiarism of any content (theoretical or practical) will mean the suspension of the subject.

REFERENCES

Basic

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Additional

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