



Universitat de Lleida

DEGREE CURRICULUM **NERVOUS SYSTEM DISORDERS**

Coordination: PURROY GARCIA, FRANCISCO

Academic year 2023-24

Subject's general information

Subject name	NERVOUS SYSTEM DISORDERS			
Code	101533			
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Bachelor's Degree in Biomedical Sciences	3	COMPULSORY	Attendance-based
Course number of credits (ECTS)	6			
Type of activity, credits, and groups	Activity type	PRAULA	TEORIA	
	Number of credits	1.6	4.4	
	Number of groups	2	1	
Coordination	PURROY GARCIA, FRANCISCO			
Department	MEDICINE AND SURGERY			
Important information on data processing	Consult this link for more information.			

NERVOUS SYSTEM DISORDERS 2023-24

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
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PURROY GARCIA, FRANCISCO	francisco.purroy@udl.cat	2,5	

Learning objectives

Know the pathophysiology of the main neurological, neurosurgical and psychiatric diseases

Know the diagnostic and therapeutic processes of the main neurological, neurosurgical and psychiatric diseases

Know the main translational models of the main neurological, neurosurgical and psychiatric diseases

Be able to interpret and communicate advances in the pathophysiology, diagnosis and treatment of major neurological, neurosurgical and psychiatric diseases

Competences

- Know the molecular, cellular, genetic and epigenetic bases of neurological, neurosurgical and psychiatric diseases.
- Understand the biological basis of neurological, neurosurgical and psychiatric diseases to raise a hypothesis of research work.
- Know the main lines of research for neurological, neurosurgical and psychiatric diseases.
- Know how to obtain scientific information through specialized publications, as well as be able to summarize it and present it in different formats.
- Know the scientific methodology of research into the main neurological, neurosurgical and psychiatric diseases
- CB1 That students have demonstrated that they have and understand knowledge in an area of study that is based on general secondary education, and is usually found at a level that, while supported by advanced textbooks, also includes some aspects. involving knowledge from the forefront of the field of study
- CB2 That students know how to apply their knowledge to their job or vocation in a professional way and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their study area.
- CE62 Describe the molecular, cellular, genetic and epigenetic basis of diseases of the nervous system
- CE64 Describe the main lines of research with which the most prevalent human pathologies of the nervous system are being addressed.
- CE65 Analyze scientific information through specialized publications, as well as be able to summarize and present it in different formats.
- CE66 Recognize the scientific methodology of research.

Subject contents

Neurological diseases

Demyelinating diseases of the nervous system. Animal models, major inflammatory diseases of the nervous system. multiple sclerosis. Two hours

Cerebrovascular diseases Animal model. Pathophysiology of stroke, diagnosis and treatment. Two hours

Prion diseases. An hour

Paraneoplastic syndromes. An hour

Epilepsy. Types of crisis, diagnosis and treatment. Animal model and pathophysiology of epilepsy. Two hours

Dementia. Pathophysiology of the main types of dementia. Diagnosis and treatment. Three hours.

amniotrophic lateral sclerosis. Pathophysiology of motor neuron diseases. animal models. Main symptoms, diagnosis and treatment of ALS. Two hours.

Myopathies and neuropathy. Pathophysiology. animal models. Main symptoms, diagnosis and treatment. Three hours.

headache Pathophysiology. Animal models, Main symptoms. Diagnosis and treatment. headache research. Three hours

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Parkinson's disease. Pathophysiology. animal models. Main symptoms. Diagnosis and treatment. Three hours.

neurosurgical diseases

intracranial hypertension. Two hours

Tumors of the central nervous system. Two hours

Seminar

Pathophysiology of stroke (2 h)

Genetics in neurological diseases (2 h)

Neurorepair and stem cells (2 h)

Animal models of stroke (2h)

Presentation articles (2)

Enfermedades psiquiátricas

CLASSE TEÒRICA	PROFESSOR	Data	Hora
La psiquiatria i las neurociencias. El Modelo biopsicosocial	Pifarré (MSN 25)	24 marzo	8.00
Esquizofrenia y otros trastornos psicóticos (I)	Miret	25 marzo	9.00
Esquizofrenia y otros trastornos psicóticos (II)	Miret	26 marzo	8.00
Trastornos afectivos (I)	Mur	6 abril	8.00
Trastornos afectivos (II)	Mur	7 abril	8.00
Trastornos de la personalidad	Batalla	19 abril	8.00
Trastornos de la infancia y adolescencia (I)	Esquerda	20 Abril	8.00
Psicofarmacología (I) Antipsicóticos	Pifarré	21 Abril	8.00
Psicofarmacología (II): antidepresivos y eutimizantes	Mur	22 Abril	8.00
Trastornos de ansiedad	Batalla	23 Abril	8.00
Trastornos de la infancia i adolescencia II	Esquerda	27 abril	8.00
Trastornos por uso de sustancias	Batalla	28 Abril	8.00
Genética de las enfermedades mentales	Miret	29 Abril	8.00
Trastorno obsesivo compulsivo	Pifarré	3 mayo	8.00
Otros tratamientos biológicos	Pifarré	5 mayo	8.00

Me

SEMINARIO PRÁCTICO	PROFESOR	Fecha grupo A	Fecha grupo B
1. Del síntoma al diagnóstico. Trastornos psicóticos	Miret (Sem 6)	24/03 11-13 h	24/03 9-11 h
1. Del síntoma al diagnóstico: Trastornos de la personalidad	Batalla (Sem 7)	20/04 10-12 h	20/04 12-14 h
1. Del síntoma al diagnóstico. Trastornos afectivos	Mur (Sem 9)	27/04 10-12 h	21/04 11-13
1. Presentación trabajos I	Pifarré (Sem 8)	Asíncrona	Asíncrona
1. Presentación trabajos II	Pifarré (Sem 10)	Asíncrona	Asíncrona

Evaluation

The final grade will be the sum of the different aspects evaluated:

The final evaluation will take into account separately the assessment of the abilities related to 1) neurological diseases and 2) psychiatric diseases. the final grade will be the average of the evaluation of both aspects. It will be essential to pass the knowledge of 1 and 2 to be able to average.

The conceptual-theoretical knowledge of the master classes and seminars will be evaluated with 2 test-type exams (one at the end of the Neurological and Neurosurgical diseases groups; and another after the Psychiatric diseases. It will be essential to pass these tests to be able to pass the subject.

In addition, there will be an ongoing assessment through the assessment of oral presentations and the conduct of ongoing assessment activities on the Sakai platform.