

Academic Year: (2024 / 2025)

Review date: 04-09-2024

Department assigned to the subject: Departamento de Neurociencia y Ciencias Biomédicas

Coordinating teacher: BALABAN , EVAN STUART

Type: Basic Core ECTS Credits : 6.0

Year : 1 Semester : 2

DESCRIPTION OF CONTENTS: PROGRAMME

1. Introduction and General Concepts of Neurobiology.
2. Cellular and Histological Basis of the Nervous System (NS).
3. Nerve impulse. Synapses. Neurotransmitters.
4. Structure, anatomy and development of the NS.
5. Information input systems. Sensory and proprioceptive functions.
6. Motor functions.
7. Autonomic functions.
8. Neuroendocrine functions.
9. Regulatory and homeostatic functions (feeding, hydration, rhythmicity, sleep).

LEARNING ACTIVITIES AND METHODOLOGY

Classroom lectures.
 Face-to-face classes: reduced (workshops, seminars, case studies).
 Student individual work.
 Laboratory session.
 Final exam.

Seminars and lectures supported by computer and audiovisual aids.
 Practical learning based on cases and problems, and exercise resolution.
 Individual and group or cooperative work with the option of oral or written presentation.
 Individual and group tutorials to resolve doubts and queries about the subject.
 Internships and directed laboratory activities.

ASSESSMENT SYSTEM

% end-of-term-examination:	60
% of continuous assessment (assignments, laboratory, practicals...):	40
Final exam.	
Continuous evaluation.	

BASIC BIBLIOGRAPHY

- Augustine GJ, Groh JM, Huettel SA, LaMantia AS, White LE, Purves D Neuroscience, Seventh Edition, Oxford University Press, 2024
- Barresi MJF, Gilbert SF Developmental Biology, International Thirteenth Edition, Oxford University Press, 2023

