This module will deal with the structure and function of the nervous system. Lectures will focus on gross anatomy and functions of the central and peripheral nervous systems; ventricles and CSF; vasculature of the brain; ion channels; synaptic transmission; sensory, motor and limbic systems; plasticity, memory and learning.

Details of the module

Introduction
Neurophysiology I
Neurophysiology II
Synaptic Transmission
Synaptic Plasticity
Cerebrospinal fluid and Blood
CNS
PNS
ANS
Somatosensory System
Motor System I
Motor System II - Cerebellum
Motor System III - Basal Ganglia
Thalamus
Hypothalamus
Olfaction
Hearing & Equilibrium
Gustation
The Visual System I
The Visual System II

TOTAL HOURS  20 h

Reading/Learning Resources
- Neuroscience (5th edition) by D. Purves et al. (2012)
- Principles of Neural Science, Fifth Edition (Principles of Neural Science (Kandel)) 5th Edition by Eric R. Kandel (Editor), James H. Schwartz (Editor), Thomas M. Jessell (Editor), Steven A. Siegelbaum (Editor), A. J. Hudspeth (Editor)

Learning Outcomes
On successful completion of this module students should be able to:
- Name the main structures of the nervous system and to explain their developmental origin
- Explain the basic concepts of excitability and neurotransmission
- Explain the basis of the most common neurological disorders
- Detail the main functional subsystems of the central nervous system
- Discuss the main concepts of homeostasis and learning theories.

Assessment (100%): Exam Friday 21 October 2022 11:00-13:00hr
In person MCQ+SAQ Exam (EEPC1/EEPC2)