


The version you're consulting is not final. This course description may change. The final version will be published on 1st June.

3.00 credits

30.0 h

Q2

|                             |   |
|-----------------------------|---|
| Teacher(s)                  | Duque Julie (coordinator) ;Hardwick Robert ;Nozaradan Sylvie ;  |
| Language :                  | French<br>> English-friendly  |
| Place of the course         | Louvain-la-Neuve  |
| Main themes                 | Key topics to meet these objectives. The description of the neurophysiological basis of pain perception. Nervous mechanisms and functioning of inter-hemispheric interactions and their role in motor control. The main mechanisms of nervous motor control areas by frontal and parietal cortex. The neurophysiological basis of memory and learning. The description of the phenomenon of plasticity in the central nervous system and their mechanisms.  |
| Learning outcomes           | <p><b>At the end of this learning unit, the student is able to :</b></p> <p>1 At the end of this entity of education, students should be able to understand the foundations of science in neuroscience through the study of nervous mechanisms particularly suited to the neurological rehabilitation. It should also be able to undertake the critical reading of a scientific article published in the field of neuroscience.</p>   |
| Evaluation methods          | Written exam with Multiple Choice Questions   |
| Teaching methods            | Ex-cathedra courses, either face-to-face or distance learning.<br>Some courses will be in English. This concerns about 1/3 of the courses.<br>The courses of Julie Duqué are in podcast and can be found on the Ezcast platform.  |
| Content                     | <p>Students will be able to understand the foundations of science in neuroscience through the study of nervous mechanisms particularly suited to neurological rehabilitation. Students will also be able to undertake the critical reading of a scientific article published in the field of neuroscience. Key topics to meet these objectives can vary and include for example :</p> <ul style="list-style-type: none"> <li>- Cerebral lateralization and inter-hemispheric interactions.</li> <li>- Decision making, action selection and inhibitory control.</li> <li>- Addictions.</li> <li>- Emotions.</li> <li>- Memory and learning.</li> <li>- Brain plasticity.</li> <li>- Perception of faces.</li> <li>- Hearing, perception of rhythms and music.</li> <li>- Sleep.</li> <li>- Autonomic nervous system.</li> </ul> |
| Other infos                 | Language used for the courses: French and English<br>Evaluation : Written exam<br>Support: Course slides on Moodle<br>Supervision: Titulars<br>This course is given partially in English.   |
| Faculty or entity in charge | FSM   |

| <b>Programmes containing this learning unit (UE)</b>   |         |         |              |   |
|--|---------|---------|--------------|---|
| Program title  | Acronym | Credits | Prerequisite | Learning outcomes   |
| Bachelor in Physiotherapy and Rehabilitation [Pour diplômé.es du master EDPH2M avec l'option motricité de l'UCLouvain] | KINE1BA | 3       |              |  |