


In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

3 credits

20.0 h + 10.0 h

Q2

Teacher(s)	Lee John ;Missal Marcus (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Aims	<i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods	<b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b> Oral examination
Teaching methods	<b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b> Lectures and critical paper readings.
Content	(1) Necessity of a theoretical approach in neurosciences. (2) History of neural networks. (3) Most important types of neural networks At the end of this unit, the student should be able to justify mathematical modeling of the central nervous system. The student should be able to explain the general principles of neural networks and have the knowledge and skills to simulate the behavior of elementary neural networks using MATLAB NNTool GUI.
Inline resources	<a href="https://moodleucl.uclouvain.be/course/view.php?id=9189">https://moodleucl.uclouvain.be/course/view.php?id=9189</a>
Other infos	Prerequisites: introduction to linear algebra and differential calculus.
Faculty or entity in charge	FASB

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Biomedicine	<a href="#">SBIM2M1</a>	3		
Master [120] in Biomedicine	<a href="#">SBIM2M</a>	3	<a href="#">WSBIM2280</a> AND ( <a href="#">WSBIM2112</a> OR <a href="#">WSBIM2151</a> ) AND <a href="#">WSBIM2154</a> AND <a href="#">WSBIM2155</a> AND <a href="#">WSBIM2156</a>	