


3 credits

20.0 h + 10.0 h

Q2

Teacher(s)	Lee John ;Lee John (compensates Missal Marcus) ;Missal Marcus coordinator ;
Language :	French
Place of the course	Bruxelles Woluwe
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	Oral examination
Teaching methods	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	https://moodleucl.uclouvain.be/course/view.php?id=9189
Bibliography	• https://moodleucl.uclouvain.be/course/view.php?id=9189
Other infos	Prerequisites: introduction to linear algebra and differential calculus.
Faculty or entity in charge	FASB

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Biomedicine	SBIM2M	3		
Master [60] in Biomedicine	SBIM2M1	3		