Module Name

Essentials in Neuroscience - Lectures

Type of Module					Module Code							
Advanced Module					AM-B-N 1							
			Term	Offered Every		Start [Duration				
MN-B-N 1		180 Hours	6 CP	1. – 3.	. Semester	WiSe		Winter Term Only		1 Semester		
1	Course Types a) Lecture				Contact Time 49 h		Private St	udy Pla Size		nned Group e		
				4911			13011		50-70 Students			
2	Module Objectives and Skills to be Acquired											
	 Students who successfully completed this module have acquired an understanding of neural functions and mechnisms from the cellular to the behavioral level have acquired in-depth knowledge of important concepts in the neurosciences will be in a position to access future developments in the neurosciences have acquired the ability to form and test hypotheses in the neurosciences 									ular to the		
3	Module Content											
		 Neuroanatomy and cytology Brain architecture lon channels and electrical properties of neurons Neural signaling Circuit function Motor control Sensory systems Learning and memory Neurodegeneration and -regeneration Neuroendocrinology and neuromodulation Computational neuroscience Neuropathology Neural development Enterorereception and control of homeostasis Behavior 										
4	Teaching Methods											
	•	• Lectures										
5	Prere	Prerequisites (for the Module)										
		Formally: none										
		Additional academic requirements:										
		The knowledge of neurobiology on the level of a general biology text book (<i>e.g.</i> Campbell or Purves) is required.										
6	Туре	Type of Examination										
	Two h	Two hours written examination about topics of the lectures (100 % of the total module mark)										
7	Credits Awarded											
	Written examination at least "sufficient"											

8	Compatibility with other Curricula None							
9	Proportion of Final Grade							
	6/114							
10	Module Coordinator							
	PD Dr. Joachim Schmid, phone 470 6135, e-mail: joachim.schmidt@uni-koeln.de							
11	Further Information							
	Participating faculty: Prof. Dr. S. van Albada, PD Dr. B. Altenhein, Prof. Dr. A. Büschges, Prof. Dr. S. Daun, Prof. Dr. H. Endepols, Dr. M. Gruhn, Prof. Dr. K. Ito, Prof. Dr. P. Kloppenburg, Prof. Dr. T. Korotkova, Prof. Dr. M. Nawrot, Prof. Dr. R. Predel, Dr. T. Riemensperger, Dr. V. Rostami, PD Dr. J. Schmidt							
	Literature: • Information about textbooks and other reading material will be given on the ILIAS representation of the course							
	General time schedule: Weeks 1-14: Tue. and Thu. from 11:00 to 12:30 a.m.; Week 15 (MonFri.): Preparation for the written examination							