

COURSE CONTENT

Course Code / Title	: HP2200 Biological Psychology
Pre-requisites	: HP1000 + HP1100 or CS2008 (PSMA)
No. of AUs.	: 3 or 4
Contact Hours	: 39 or 52

Course Aims

The main objective of psychology is to understand how our minds work and apply it to issues in reality. The aim of this course is to gain the basic knowledge of biological mechanisms underlying our minds and to associate it with human abilities such as perceiving and recognizing objects, moving our limbs, and inferring other's mental states. Throughout this course, you will benefit from learning the structure and function of our nervous system. Moreover, this course provides training on interdisciplinary synthesis and disciplinary depth.

This course is in deep connection with other key courses of the program such as Introduction to Psychology, Cognitive Psychology, Social Cognition, Developmental Psychology, and Human Motivation. The course complements these courses by understanding the contents in these courses in biological perspective.

Intended Learning Outcomes (ILO)

By the end of the course, you should be able to:

- 1) explain how our mind is associated with the nervous system in biological perspective
- 2) explain how biological psychology contributes to our life from drugs to new technologies
- 3) explain why behaviors of some individuals (e.g., patients with neurological disorders) are different from the other in biological perspective

Course Content

The course content includes the anatomy and functions of the nervous system supporting our behavior. More specifically, it includes the function of neurons, anatomy of the nervous system, the mechanism underlying our senses and motor control, how our nervous system is formed, how the nervous system can flexibly change its organization, sleep, sexual behavior, emotion, learning, and memory. Finally, the students will learn the basics of techniques that measure brain activity.

Course Assessment

CA1	Individual report	: 35%
CA2	Final Video Presentation	: 30%
CA3	Continual Evaluation – Quiz (CE)	: 35%

Total		100%

Reading and References

Kalat, J.W. (2019). *Biological Psychology*, 13th Ed. Cengage (or more recent editions).

Planned Weekly Schedule (subject to changes, if any)

Week	Topic	Course LO	Readings/ Activities
1	Course introduction and Neurons	1, 2, 3	Course documents (slides) and Chapter 1 of the textbook
2	Neural signals and synapses	1, 2, 3	Course documents (slides) and Chapter 1 and 2
3	Brain Anatomy and Research Methods Quiz 1	1, 2, 3	Course documents (slides) and Chapter 3
4	Genetics, Evolution, Development and Plasticity	1, 2, 3	Course documents (slides) and Chapter 4
5	Vision Quiz 2	1, 2, 3	Course documents (slides) and Chapter 5
6	Non-visual senses	1, 2, 3	Course documents (slides) and Chapter 6
7	Movement Individual Report Due	1, 2, 3	Course documents (slides) and Chapter 7
8	Wakefulness & Sleep Quiz 3	1, 2, 3	Course documents (slides) and Chapter 8

9	Sexual Behavior	1, 2, 3	Course documents (slides) and Chapter 10
10	Emotion Quiz 4	1, 2, 3	Course documents (slides) and Chapter 11
11	Learning and Memory Quiz 5	1, 2, 3	Course documents (slides) and Chapter 12
12	Cognitive Functions, Abnormal behaviors Video Clip Due	1, 2, 3	Course documents (slides) and Chapter 13
13	Feedbacks on Assignments and Group Discussion	1, 2, 3	Course documents (slides)