

**MODULE HANDBOOK**

	<b>UNIVERSITAS PADJADJARAN</b> <b>FACULTY OF MATHEMATICS AND NATURAL SCIENCES</b> <b>BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE:</b> <b>D10D-60109</b>
<b>Module designation</b>	Neuroendocrinology	
<b>Semester(s) in which the module is taught</b>	6	
<b>Person(s) responsible for the module</b>	1. Dr. Desak Made Malini 2. Nining Ratningsih, MIL	
<b>Medium of instruction</b>	Indonesian	
<b>Relation to curriculum</b>	Elective course	
<b>Teaching methods</b>	Lectures, discussions, cooperative learning, and inquiry learning	
<b>Workload</b>	Total workload : 5440 minutes = 90.67 hours  Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours  Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
<b>Credit points</b>	2,00 (3,62 ECTS)	
<b>Required and recommended prerequisites for joining the module</b>	Animal Structure and Physiology	
<b>Module objectives/intended learning outcomes</b>	1. Able to understand the scientific scope of neuroendocrinologists 2. Able to explain the concept of growth and development of the nervous system 3. Able to explain about Neuroanatomy and structure of vertebrate nerves and neuron transmission 4. Able to explain the comparative anatomy of the vertebrate brain and the hormone system in vertebrates 5. Able to explain about the structure and function of the hypophysis gland 6. Able to explain the structure function and development process of the thyroid gland, pathophysiology and comparison with other species 7. Able to explain the structure, function, metabolism and relationships that occur due to dysfunction of the pancreas gland and can distinguish the function of the pancreas gland in animals in the taxon 8. Able to explain the structure, function, hormones and physiological effects and the concept of stress in general on the medulla, cortex and interregal as well as the structure and function of the pineal gland 9. Able to explain about sexual reproduction, gonads, structure and reproductive hormones and their regulatory mechanisms.	
<b>Contents</b>	-	
<b>Examination forms</b>	Quiz, midterm exam, assignment, and final exam	
<b>Study and examination requirements</b>	The minimum attendance in lectures is 80%. Final grades are evaluated based on Quizzes (20%), Tasks (20%), midterm exams (30%), and final exam (30%)	
<b>Reading lists</b>	1. Gilbert, S.F. 2000. Developmental Biology, 6th ed. Sunderland: Sinauer Associates, Inc. 2. Johnson, M. & B. Everitt. 1988. Essential Reproduction, 3rd ed. Oxford: Blackwell Scientific Publications 3. Sadler, T.W. 1990. Langmans medical Embriology. 6 th ed. Baltimore Mariland: Williams & Wilkins 4. Carlson, B. M. 1996. Patten's foundations of embryology, 6th ed. New York: McGraw-Hill, Inc 5. Martini F. 1989. Fundamentals of Anatomy and Physiology. Prentice Hall International Edition. 6. Turner, C.D. & Joseph T.B. 1976. Endokrinologi Umum. Airlangga University Press	