MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE:** **D10D-3005**
Module designation	Animals Structure and Physiology 2	
Semester in which the module is taught	3	
Persons responsible for the module	1. Dr. Kartiawati Alipin 2. Dra. Nining Ratningsih MIL. 3. Dr. Desak Made Malini 4. Dr. Yasmi P. Kuntana 5. Madihah, M.Si	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Lectures and discussions, Cooperative Learning, Contextual Learning, Project Based Learning	
Workload	Total workload : 8160 minutes = 136 hours Lecture and discussion : 3 x 50 minutes x 16 weeks = 2400 minutes = 40 hours Exercises : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours Self-study : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours	
Credit points	3.00 (5.43 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	1. Students are able to explain the anatomical and histological structures and functions of organs in the animal body system. 2. Students are able to distinguish the structures and functions of organs from several animal groups, especially vertebrates. 3. Students are able to connect the structures and functions of various organs that make up the animal body system. 4. Students are able to use their knowledge of animal structure and physiology as a basis for analyzing structural and physiological changes due to environmental influences.	
Contents	1. Structure and function of the reproductive system 2. Structure and function of the respiratory system 3. Structure and function of the cardiovascular system 4. Structure and function of the lymphatic and immune systems 5. Structure and function of the urinary system 6. Structure and function of the digestive system 7. Structure and function of the endocrine system 8. Metabolic reactions, nutrition, and homeostasis	
Examination forms	Quiz, Midterm exam, Assignment, and Final exam	

Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)
Reading lists	1. Gartner L.P. and Hiatt J.L. 2006. Color Textbook of Histology, 3rd ed. Saunders Elsevier: Philadelphia. 2. Drake, R.L, Vogl, W and Mitchell, A.W.M. 2007. Gray's Anatomy for Students. Saunders Elsevier: Philadelphia. 3. Harver, H.A., V.W. Rodwel & P.A. Mayes. 1997. Review of Physiology Chemistry. Lange Medical Publishing. Los Altos California. 4. Vander, A.J., H.S. Hourses & D.S. Luciano. 1994. Human Physiology. McGraw-Hill Inc. New York. St Louis. San Fransisco. 5. Tortora, G.G. & N.P. Anagnostakos. 1984. Principles of Anatomy and Physiology, 4th ed. Harper & Row Publishers: New York 6. Mescher, A. L. (2018). Junqueira's Basic Histology: Text & Atlas (15th ed.). McGraw-Hill Education. 7. Drake, R. L., Vogl, W., & Mitchell, A. W. M. (2019). Gray's Anatomy for Students (4th ed.). Elsevier.