

Module Handbook

Modul Name	Vertebrates Comparative Anatomy
Modul Level	Bachelor
Abbreviation, if applicable:	BIS 220
Sub--heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Odd
Module Coordinator	Prof. Win Darmanto, M.Si., Ph.D.
Lectures	Muhammad Hilman Fu'adil Amin, M.Si.
Language	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course / Elective Studies
Teaching format/ class hours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirements	-
Learning goals/competencies	General Competence (Knowledge) Students are able to explain the function of vertebrate organs; to evaluate and to compare of biodiversity vertebrates based on their structure properly Specific Competence 1. Understanding muscle system 2. Comparing and explaining Integument System 3. Comparing and explaining Skeleton 4. Comparing and explaining Nerve system 5. Comparing and explaining sense system 6. Comparing and explaining the digestive system 7. Comparing and explaining respiration system 8. Comparing and explaining hormonal system 9. Comparing and explaining excretion system 10. Comparing and explaining reproduction system 11. Comparing and explaining circulation system
Content	Describing and comparing the systems of muscular, integumentary, skeleton, nervous, sensory, digestive, endocrine, excretory, reproductive, circulatory, and respiratory.
Soft skill Attribute	Discipline and Argumentation
Study/ exam achievements	Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: mid exam (40%), final exam (50%), and soft skill (10%) Final index is defined as follow: A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99

Form of media	LCD
Learning Method	Class and discussion
Literature	<ul style="list-style-type: none"> a. Kardong, K. 2011. <i>Vertebrates Comparative Anatomy, Function, Evolution 6 edition</i>. McGraw-Hill. New York. b. Atwood, W.H. 1955. <i>Comparative Anatomy</i>. 2nd ed. The C.V. Mosby Company, ST. Louis USA. c. Weichert, C.K. 1959. <i>Element of Chordate Anatomy</i>. 2nd ed. Mc. Graw Hill book Company. Inc., New York. d. Kent, G.C. 1973. <i>Comparative Anatomy of Vertebrates</i> 3rd ed. Toppan Co., Ltd. Tokyo;ix e. Orr, R.T. 1976. <i>Vertebrate Biology</i> 4th ed. Toppan Co., Ltd. Tokyo;ix. f. Romer, A.s. 1971. <i>The Vertebrate Body</i>, 4th ed. Toppan Co. Ltd. Tokyo viii.
Note	Requirement of Animal Reproduction, Spermatology, and Biosystematics