

Module Handbook

Modul Name	Vertebrates Comparative Anatomy (Practical Work)
Modul Level	Bachelor
Abbreviation, if applicable:	BIS 221
Sub--heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Odd
Module Coordinator	Prof. Win Darmanto, M.Si., Ph.D.
Lectures	Dr. Sri Puji Astuti Wahyuningsih, M.Si. Sugiharto, M.Si. 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	1
Requirements	-
Learning goals/competencies	<p>General Competence (Knowledge) Students are able to compare the vertebrates structure properly</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Understanding and comparing species of Osteichthyes I 2. Understanding and comparing species of Osteichthyes II 3. Understanding and comparing species of Amphibia I 4. Understanding and comparing species of Amphibia II 5. Understanding and comparing species of Reptile 6. Understanding and comparing species of Aves I 7. Understanding and comparing species of Aves II 8. Understanding and comparing species of Mammal I 9. Understanding and comparing species of Mammal II 10. Understanding and comparing species of Vertebrates I 11. Understanding and comparing species of Vertebrates II
Content	Perform surgery to study and to compare the vertebrate anatomy of Pisces, Amphibia, Reptilia, Aves, and Mammalia.
Soft skill Attribute	Discipline and teamwork
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Paper project (20%), quiz (10%), mid exam (30%), final exam (30%), and soft skill (10%)</p> <p>Final index is defined as follow:</p> <p>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</p>

Form of media	Laboratory equipment
Learning Method	Practical Work
Literature	<ul style="list-style-type: none"> a. Hildebrand, M. 1984. <i>Analysis of Vertebrate Structure</i>. John Willey & Sons. New York-Brisbane-Toronto;XV. b. Jordan, E.L. & P.S. 1983. <i>Chordate Zoology and Elements of Animal Physiology</i>. 5th ed. S. Chand & Co., Ltd. New Delhi;xii. c. Kent, G.C. 1973. <i>Comparative Anatomy of Vertebrates</i> 3rd ed. Toppan Co., Ltd. Tokyo;ix d. Orr, R.T., 1976. <i>Vertebrate Biology</i> 4th ed. Toppan Co., Ltd. Tokyo;ix. e. Praker, T.J. & W.A. Haswell, 1978. <i>Textbook of Zoology</i>. Vol II 7th Ed. English Language Book Society. Hongkong xxiii. f. Romer, A.s., 1971. <i>The Vertebrate Body</i>, 4th ed. Toppan Co. Ltd. Tokyo viii.
Note	Requirement of Animal Reproduction (Practical Work), Spermatology, and biosystematic