

MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE D10D-60102
Module designation	Vertebrates	
Semester(s) in which the module is taught	6	
Person(s) responsible for the module	<ol style="list-style-type: none"> 1. Prof. Wawan Hermawan 2. Dr. Eneng Nunuz Rohmatullayaly, M.Si 3. Dr. Melanie 4. Dra. Nining Ratningsih, M.I.L 	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning	
Workload	<p>Total workload : 5440 minutes = 90.67 hours</p> <p>Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours</p> <p>Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p> <p>Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p>	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Able to understand the scope and scope of vertebrate taxonomy 2. Able to explain the concepts of evolution, taxonomy, and vertebrate diversity 3. Able to understand collection techniques and preservation of specimens from various vertebrate taxa for identification purposes 4. Able to identify basic characteristics in Chondrichthyes, Osteichthyes, Amphibians, Reptiles, Aves, and Mammalia Classes 5. Able to explain the geographical distribution/zoogeography of vertebrates 6. Able to explain the diversity, identify, and describe vertebrate animals that are endemic to Indonesia. 7. Able to describe knowledge and theories about the characteristics of vertebrate diversity for the benefit of ecological and habitat conservation. 	
Contents	<p>The Vertebrate Taxonomy course is a compulsory course that studies the concepts of evolution, taxonomy, and geographical distribution as a science of vertebrate diversity. The components of vertebrate taxonomy studied are the characteristics and classification of the Chondrichthyes, Osteichthyes, Amphibians, Reptiles, Aves, and Mammals classes. In addition, several other taxonomic aspects such as field observation, collection, identification, and geographical distribution were also studied, especially for vertebrates related to human life, endemic, and protected.</p>	
Examination forms	Quiz, midterm exam, assignment, and final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. The final grade is evaluated by quizzes (20%), assignments (20%), midterm exam (30%), and final exam (30%).	
Reading lists	<ol style="list-style-type: none"> 1. Bauchot, R. (Editor), 1994. Snakes A Natural History. Sterling Publishing Co., Inc. New York. 2. Beehler, B.M., T.K. Pratt and D.A. Zimmerman. 1986. Bird of new Guinea. Princeton Univ Press, New Jersey. 3. Capula, M., 1989., Simon & Schuster's Guide to the Reptiles and Amphibians of the World. Simon & Schuster Inc., New York. 4. De Rooij, N., 1917. The Reptiles of Indo-Australian Archipelago I (Lacertilia). E.J., Leiden. 5. De Rooij, N., 1917. The Reptiles of Indo-Australian Archipelago II (Ophidia). E.J. Brill, Leiden. 6. Ernst, C.H., and R.W. Barbour, 1989. Turtles of the World. Smithsonian Institution Press. Washington D.C., 	

	<p>and London.</p> <ol style="list-style-type: none"> 7. Kemp, T.S. 2005. <i>The Origin and Evolution of Mammals</i>. United States: Oxford University Press Inc. 8. Lagler, K.F.; J.E. Bardach; R.R. Miller & D.R.M. Passino. 1977. <i>Ichthyology</i>. 2nd Ed. John Wiley & Sons. New York. 9. Lieske, E. dan R. Myers. 2001. <i>Reef Fishes of The World</i>. Revised Edition. Periplus. Singapore. 10. Porter, K.R., 1972. <i>Herpetology</i>. W.B. Saunders Company, Philadelphia, London, Toronto. 11. Schuster, W.H and R.R. Djajadiredja. 1952. <i>Local Common Names of Indonesia Fishes</i>. W. Van Hoeve, Bandung 12. Stebbins, R.C., and N. W. Cohen, 1995. <i>A Natural History of Amphibians</i>. Princeton University Press, Princeton, New Jersey. 13. Storer, T.I. and R.L. Usinger. 1975. <i>General Zoology</i>. McGraw. Hill Book Co., New York. 14. Van Hoesel, J.K.P., 1959. <i>Ophidia Javanica</i>. Archipel, Bogor. 15. Van kampen, P.N., 1923. <i>The Amphibia of the Indo-Australian Archipelago</i>. E.J. Brill, Ltd., Leiden
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