

MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE : D10D-3011
Module designation	Animal Taxonomy	
Semester in which the module is taught	3	
Persons responsible for the module	<ol style="list-style-type: none"> 1. Drs. Hikmat Kasmara, M.S. 2. Prof. Dr. Wawan Hermawan 3. Drs. Tatang Suharman Erawan, M.I.L. 4. Dr. Melanie, M.Si 5. Dr. Eneng Nunuz Rohmatullayaly, M.Si. 	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory Course	
Teaching methods	Lectures and discussions, Student-Centered Learning, Project-based Learning, Collaborative Learning	
Workload	<p>Total workload : 8160 minute = 136 hour</p> <p>Lecture and discussion : 3 x 50 minute x 16 week = 2400 minute = 40 hour</p> <p>Exercises : 3 x 60 minute x 16 week = 2880 minute = 48 hour</p> <p>Self-study : 3 x 60 minute x 16 week = 2880 minute = 48 hour</p>	
Credit points	3.00 (3.54 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Students are able to define the basic concepts and principles of animal taxonomy and systematics, including explaining the role and benefits as well as prospects and challenges in animal taxonomy. 2. Students are able to explain the identification process and the International Code of Zoological Nomenclature (ICZN). 3. Students are able to explain the origin and evolution of the main characteristics and classification of animals based on phylum in invertebrates. 4. Students are able to explain the geographical distribution of zoogeographical regions on a geological time scale. 5. Students are able to explain the origin and evolution of the main characteristics and classification of animals based on class in chordate vertebrata. 6. Students are able to explore and compile examples of current animal taxonomy research based on selected orders or classes. 	
Contents	<ol style="list-style-type: none"> 1. Introduction: Prospects and Challenges in Animal Taxonomy 2. Classification in animal taxonomy 3. International Code of Zoological Nomenclature (ICZN) and Animal Database 4. Zoogeography (Distribution of Animal Diversity) 5. Invertebrate Diversity (Animal Classification Based on Order) 6. Chordata/Vertebrate Diversity (Animal Classification Based on Class) 	
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%)	

<p>Reading lists</p>	<ol style="list-style-type: none"> 1. Barnes, R.D. 1974. Invertebrate Zoology. W.B. Saunders Co. Philadelphia. 2. Bauchot, R. (Editor), 1994. Snakes A Natural History. Sterling Publishing Co., Inc. New York. 3. Beehler, B.M., T.K. Pratt and D.A. Zimmerman. 1986. Bird of new Guinea. Princeton Univ Press, New Jersey. 4. Borradaile, L.A. and F.A. Potts. 1967. The Invertebrata. 4th Edition, the Univ. Press, Cambridge. 5. Brusca, R. C., & Brusca, G. J. (2003). Invertebrates (No. QL 362. B78 2003). Basingstoke. 6. De Rooij, N., 1917. The Reptiles of Indo-Australian Archipelago I (Lacertilia). E.J., Leiden. 7. De Rooij, N., 1917. The Reptiles of Indo-Australian Archipelago II (Ophidia). E.J. Brill, Leiden. 8. Ernst, C.H., and R.W. Barbour, 1989. Turtles of the World. Smithsonian Institution Press. Washington D.C., and London. 9. Fauchald, K. 1977. The Polychaeta Worms. Definition and Keys to The Orders, Families and Genera. Natural History Museum, Los Angeles 10. Kemp, T.S. 2005. The Origin and Evolution of Mammals. United States: Oxford University Press Inc. 11. Lagler, K.F.; J.E. Bardach; R.R. Miller & D.R.M. Passino. 1977. Ichthyology. 2nd Ed. John Wiley & Sons. New York. 12. Lieske, E. dan R. Myers. 2001. Reef Fishes of The World. Revised Edition. Periplus. Singapore. 13. Porter, K.R., 1972. Herpetology. W.B. Saunders Company, Philadelphia, London, Toronto. 14. Roberts, D. S., Soemodihardjo, and W. Kastoro. 1982. Shallow Water Marine Mollusca of North-West Java. Lembaga Oseonologi Nasional, LIPI, Jakarta. 15. Schuster, W.H and R.R. Djajadiredja. 1952. Local Common Names of Indonesia Fishes. W. Van Hoeve, Bandung 16. Stebbins, R.C., and N. W. Cohen, 1995. A Natural History of Amphibians. Princeton University Press, Princeton, New Jersey. 17. Storer, T.I. and R.L. Usinger. 1975. General Zoology. McGraw. Hill Book Co., New York. 18. Van Hoesel, J.K.P., 1959. Ophidia Javanica. Archipel, Bogor. 19. Van kampen, P.N., 1923. The Amphibia of the Indo-Australian Archipelago. E.J. Brill, Ltd., Leiden. 20. Brusca, R. C., Moore, W., & Shuster, S. M. (2016). Invertebrates (3rd ed.). Oxford University Press. 21. Pratt, T. K., Beehler, B. M., & Zimmerman, D. A. (2015). Birds of New Guinea: Second Edition (Princeton Field Guides). Princeton University Press.
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