

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND SCIENCE DEPARTMENT OF BIOLOGY EDUCATION

Colombo 1 Street Yogyakarta 55281 Phone: (0274)565411 Ext. 217, (0274)565411(Administration Office),fax (0274)548203 Website: fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Science in Biology

MODULE HANDBOOK

Module name:	Animal Biosystematics				
Module level, if applicable:	Undergraduate				
Code:	BIM 6260				
Sub-heading, if applicable:	-				
Classes, if applicable:	-				
Semester:	Even				
Module coordinator:	Rizka Apriani Putri, M.Sc				
Lecturer(s):	Rizka Apriani Putri, M.Sc				
Language:	Bahasa Indonesia				
Classification within the	Elective Course				
curriculum:					
Teaching format / class	100 minutes lectures, 120 minutes structured activities, and				
hours per week during the	120 minutes individual study per week				
semester:					
	Total workload is 91 hours per semester which consists of 100				
Workload:	minutes lectures, 120 minutes structured activities, and 120				
	minutes individual study per week for 16 weeks.				
Credit points:	2 SKS (3 ECTS)				
Prerequisites course(s):	Invertebrate Biology, Vertebrate Biology				
Program Learning Outcomes	PLO 4. Comprehensively mastering Biology (core biology) to				
	solve problems in the field of Biology (problem-solving) and to				
	underlie the concepts of related sciences				
	PLO 6. Being adaptive, creative, innovative in applying the				
	concepts of Biology and other related fields				
	PLO 9. Being able to work and create jobs/being an				
	entrepreneur in the field of Biology				

	PLO 11. Possessing scientific skills to support the ability to						
	speak in local, national, and international forums						
Course Outcomes	 After taking this course, the students have ability to: CO 1. Understand the basic terminology, history and fundamentals of animal systematic and nomenclature CO 2. Explain the importance of Genetic variation, polymorphic species, geographical races in animal biosystematics CO 3. Understand the concept of species and the formation of new species through evolutionary process (Microtaxonomy) CO 4. Explain the basis of biological classifications (Macrotaxonomy) CO 5. Understand how to choose characters/Operational Taxonomic Units (OTU) in taxonomy and systematics CO 6. Demonstrate the use of OTUs in numeric phenetic and cladistic analysis in animal biosystematics 						
Content:	This course provide students with the advanced knowledge in Biological Systematics particularly in animals. Students will learn about fundamentals of animal systematics, species and species concepts, Macrotaxonomy, and systematics analysis including numeric phenetics and cladistic.						
	The final mark will be weight as follow:						
Study / exam achievements:	No	CO	Assessment Object	Assessment Technique	Weight		
	1	CO1 to CO 6	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	60%		
	2	Review session			40%		
				Total	100%		
Forms of media:	multi	media					
	 A. Simpson, G.G. 1961, Principles of Animal Taxonomy, Oxford Book Company, New Delhi B. Richards, R.E., 2016, Biological Classification, A Philosophical Introduction, Cambridge University Press, UK C. J.E Winston, 1999, Describing Species : Practical Taxonomic Procedure for Biologist, Columbia University Press, New York D. Hickman, C. P. <i>et al.</i> ,2017, Integrative Principles of Zoology 17th Ed, McGraw Hill Education, New York E. Wiens, J.J. (ed), 2000, Phylogenetic Analysis of Morphological Data. Ontitional Integrative 						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓		✓					✓
CO2				✓		✓					✓
CO3				✓		✓					✓
CO4				✓		✓					✓
CO5				✓		✓			✓		✓
CO6				✓		✓			✓		✓