UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND SCIENCES
DEPARTMENT OF BIOLOGY EDUCATION
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Bachelor of Science in Biology **MODULE HANDBOOK**

Module name:	Laboratory Work in Herpetology
Module level, if applicable:	Undergraduate
Code:	BIM 6159
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	Odd
Module coordinator:	Rizka Apriani Putri, M.Sc
Lecturer(s):	Rizka Apriani Putri, M.Sc
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lab work, 120 minutes structured activities, and 120 minutes individual study per week
Workload:	Total workload is 91 hours per semester which consists of 100 minutes lab work and field work, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	1SKS (1 ECTS)
Prerequisites course(s):	General Biology, Vertebrate Biology, Laboratory Work in 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 5. Mastering the techniques and methodologies in Biology as well as familiar with the equipment used in Biology

<table>
<tr><td></td><td>laboratories in order to get the knowledge of Biology (how we know what we know)
PLO 6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields
PLO 7. Being skillful in applying the techniques used in laboratories and daily life
PLO 9. Being able to work and create jobs/being an entrepreneur in the field of Biology
PLO 10. Having managerial ability to supervise and evaluate workers and optimizing the networks in order to develop professionalism
PLO 11. Possessing scientific skills to support the ability to speak in local, national, and international forums</td></tr>
<tr><td>Course Outcomes</td><td>After taking this course, the students have ability to:
CO 1. Master the anatomy and morphology of amphibian
CO 2. Identify amphibian species based on its morphological characteristics
CO 3. Master the anatomy and morphology of reptiles
CO 4. Identify reptilian species based on its morphological and meristic characteristics
CO 5. Apply the technique of amphibian and reptiles species identification based on morphological characteristics in field and publish the data in form of poster/ report / paper</td></tr>
<tr><td>Content:</td><td>This lab work provides opportunities for student to study the anatomy, morphology and diversity of amphibian and reptiles. Students will also learn how to identify reptiles and amphibian species based on their morphological, anatomical and meristic characteristics.</td></tr>
<tr><td>Study / exam achievements:</td><td>The final mark will be weight as follow:
<table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1 to CO5</td><td>Observed attitudes , knolwedge, and skills</td><td>Survey, test, rubrics and manuals</td><td>60%</td></tr><tr><td>2</td><td>Review</td><td></td><td></td><td>40%</td></tr></table></td></tr>
</table>

		session			
				Total	100%
Forms of media:	Real objects, model and simulation, multimedia				
Reference:	A. De Iuliis, G., and D. Pulera, 2007, The Dissection of Vertebrates – A Laboratory Manual, Academic Press, London B. Kusrini, M.D., 2009, Pedoman Penelitian dan Survei Amfibi di Alam, Institut Pertanian Bogor C. Marlon, R., 2014, Panduan Visual dan Identifikasi Lapangan – 107+ Ular Indonesia, Indonesia Nature and Wildlife Publishing, Jakarta D. Iskandar, D.T., 1998, The Amphibians of Java and Bali, LIPI E. McDiarmid, R.W.,M.S Foster., C. Guyer, J.W. Gibbons and N. Chernoff (ed)., 2012, Reptile Biodiversity – Standards Method for Inventory and Monitoring, University of California Press				

PLO and CO mapping

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