

THE MODULE HANDBOOK

## FACULTY OF BIOLOGY

## Ornithology

Module code	BIO 41107
Module level	3 <sup>rd</sup> year of Undergraduate Program in Biology
Abbreviation, if applicable	-
Sub-heading, if applicable	-
Courses included in the module, if applicable	-
Semester/term	Odd
Module coordinator(s)	Drs. Bambang Agus Suripto, S.U., M.Sc.
Lecture(s)	Drs. Bambang Agus Suripto, S.U., M.Sc.
Language	Indonesia
Classification within the Curriculum	Elective course
Teaching format/ class hours per week during the semester	This course is organized into one class and planned to have 14 learning weeks excluded midterm and final examination.
Workload	Estimated working hour: 10,5 hours/week
Credit points	2-1 credits
Requirements	Animal Systematic (BIO 31101)
Learning goals/ competencies	<ol> <li>Learning Achievement         <ol> <li>be able to describe the characteristics , the origin and dissemination as well as the diversity of birds, especially living in Indonesia</li> <li>be able to discuss the nature of the key characters in particular mammal biology for adaptation that allows it to survive in a variety of environmental conditions</li> <li>understand the factors ( past and present ) that determines a decrease in species diversity and conservation efforts , especially in Indonesia .</li> <li>use identification keys are available in practical implementation to identify specimens to the level of the Order and Familia ( and also the level of Genus and Species for local birds ) .</li> </ol> </li> </ol>
	<ul> <li>The scope ornithologi, characteristic of birds and bird linkages with humans</li> </ul>



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	b. The origin and classification of birds as well as
	their global distribution
	c. Diversity and representative members of the class
	Aves that exist in Indonesia I (Order
	Casuariformes, Podicipediformes,
	Procellariiformes, Pelecaniformes, and the Order
	Ciconiiformes)
	d. Diversity and representative members of the class
	Aves that exist in Indonesia II (Order
	Anseritormes, Falconitormes, Gallitormes,
	Gruitormes and Charadriitormes)
	e. Diversity and representative members of the class
	Aves that exist in indonesia in (Order
	Strigitormos, and Caprimulgitormos)
	f Diversity and representative members of the class
	Aves that exist in Indonesia I (Order Apodiformes /
	Micropodiformes Trogoniformes Coraciiformes
	Piciformes, and Passeriformes)
	g. System in birds fly
	h. The sensory system and extreme adaptation in
	birds
	i. Digestive system, food and diet on birds
	j. The reproductive system and reproductive
	patterns in birds
	k. Communication in birds
	I. Migration of birds
	m. The conservation of birds that live mainly in
	Indonesia.
Content	This optional course is intended for upper level students
Content	who have plans to research for a thesis or want to explore
	the biology of the object is a bird. In the course Ornithologi
	will discuss avian characteristics that distinguish it from
	other animal groups, the origin and dissemination of
	global and especially the diversity of birds that live in
	Indonesia. The emphasis of the discussion on the
	character of the structure and function of biological
	interplay important for adaptation in varied environments
	through fly system, the senses in birds, digestive system
	and diet, reproduction, communication and migration. It
	also discussed the various factors that influence the
	degradation of the diversity of birds and bird conservation
	enous especially those living in indonesia. In the practical
	and available in practical implementation to identify
	are available in practical implementation to locality and also
	the level of Genus and Species for local hirds
Study/exam achievements	1. Midterm: 20 %
-	2. Final exam: 25 %l



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	3. Laboratory work: 30 %
	4. Project report: 10 %
	5 Paper: 5 %
	6 Quiz: 10 %
Forms of media	White board, notebook, LCD
Literature	4. Objection I. M. and C. I. Duke. 2000. The early
Literature	1. Chiappe, L.M. and G.J. Dyke, 2006. The early
	evolutionary history of birds. J. Paleont. Soc. Korea voi
	22, NO. 1 (2006): p 133-151.
	2. Coates, B.J. and K.D. Bisnop, 2000. Panduan
	Lapangan Burung-Burung di Kawasan Wallacea:
	Sulawesi, Maluku dan Nusa Tenggara. BirdLife
	International IndonesiaProgramme & Dove
	Publications Pty.Ltd. Bogor.
	3. Mackinnon, J. and J. Wind. 1980.Birds of Indonesia.
	Food and Agriculture Organization of The United
	Nations. Bogor.
	4. Mayr, G. 2007. Avian higher-level phylogeny: well-
	supported clades and what we can learn from a
	phylogenetic analysis of 2954 morphological
	characters. J. Zool. Syst Evol Res
	doi:10.1111/j.143900469. 2007.
	5. Meijer, H.J. 2014. The avian fossil record in Insular
	Southeast Asia and it implications for avian
	biogeography and palaeoecology. PeerJ 2:295
	6. Hedenstrom, A., 2008. Adaptations to migration in
	birds: behavioural strategies, morphology adn scaling
	effects Phil Trans R B (2008) 363 287-299
	7 Hilderbrand M 1995 Analysis of Vertebrate Structure
	4 <sup>th</sup> ed. John Willey & sons Inc. New York
	8 Hicman CP Robert IS and Larson & 1008 Riology
	of Animals. The McGraw-Hill Co. Inc. Roston
	9 Videlar III 2005 Avian Flight Oxford Universativ
	Drose 275 hal
	10 Mobi http://www.birde.corpoll.odu/AllAboutPirde/
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