

THE MODULE HANDBOOK

FACULTY OF BIOLOGY

Ornithology

Module code	BID 21107IUP
Module level	2 rd year of Undergraduate Dragram in Dialogy
Module level	3 rd 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	English
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	Plant Systematics (BIB 21001IUP)
Learning goals/ competencies	 Learning Achievement a. be able to describe the characteristics , the origin and dissemination as well as the diversity of birds, especially living in Indonesia b. 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 c. understand the factors (past and present) that determines a decrease in species diversity and conservation efforts , especially in Indonesia . d. 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) .
	 Learning Materials The scope ornithologi, characteristic of birds and bird linkages with humans



THE MODULE HANDBOOK

FACULTY OF BIOLOGY

	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
	Anseriformes, Falconiformes, Galliformes,
	Gruiformes and Charadriiformes)
	e. Diversity and representative members of the class Aves that exist in Indonesia III (Order
	Columbiformes, Cuculiformes, Psittaciformes,
	Strigiformes, and Caprimulgiformes)
	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.
	Indonesia.
Content	This optional course is intended for upper level students
	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
	efforts especially those living in Indonesia. In the practical
	implementation will be taught the use of identification keys
	are available in practical implementation to identify
	specimens to the level of the Order and Family (and also
	the level of Genus and Species for local birds.
Study/ovam achiovomonto	1. Midterm: 20 %
Study/exam achievements	2. Final exam: 25 %l



THE MODULE HANDBOOK

FACULTY OF BIOLOGY

	 3. Laboratory work: 30 % 4. Project report: 10 % 5. Paper: 5 % 6. Quiz: 10 %
Forms of media	White board, notebook, LCD
Literature	 Chiappe, L.M. and G.J. Dyke, 2006. The early evolutionary history of birds. J. Paleont.Soc.Korea Vol 22, No. 1 (2006): p 133-151. Coates,B.J. and K.D. Bishop, 2000. Panduan Lapangan Burung-Burung di Kawasan Wallacea: Sulawesi, Maluku dan Nusa Tenggara. BirdLife International IndonesiaProgramme & Dove Publications Pty.Ltd. Bogor. Mackinnon, J. and J. Wind. 1980.Birds of Indonesia. Food and Agriculture Organization of The United Nations. Bogor. 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. Meijer, H.J. 2014. The avian fossil record in Insular Southeast Asia and it implications for avian biogeography and palaeoecology. PeerJ 2:295 Hedenstrom, A., 2008. Adaptations to migration in birds: behavioural strategies, morphology adn scaling effects. Phil. Trans. R.B. (2008) 363: 287-299. Hilderbrand, M. 1995. Analysis of Vertebrate Structure. 4th ed. John Willey & sons Inc. New York. Hicman, CP., Robert, LS and Larson, A. 1998. Biology of Animals. The McGraw-Hill Co Inc. Boston. Videler, J.J., 2005. Avian Flight. Oxford Universoty Press. 275 hal Web: http://www.birds.cornell.edu/AllAboutBirds/