MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE** **D10D- 602011**
Module designation	Ornithology	
Semester(s) in which the module is taught	6	
Person(s) responsible for the module	1. Dr. Teguh Husodo, M.Si. 2. Dr. Susanti Withaningsih	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, project based learning and inquiry learning	
Workload	Total workload : 5440 minutes = 90.67 hours Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	1. Students are able to explain the basic principles of biology and various multidisciplinary approaches used in the conservation of biodiversity, especially birds 2. Students are able to conceptualize the role of cutting-edge technologies such as remote sensing, GIS, and genetic analysis in monitoring and managing bird species conservation and bird habitat ecosystems. 3. Students are able to relate data literacy, technology literacy, and human literacy skills to the application of science-based bird biology and conservation strategies and environmental policies 4. Students are able to identify various factors threatening bird conservation as a result of climate change, deforestation, overexploitation, and invasive species 5. Students are able to analyze bird conservation solutions based on biological-ecological science and technology in addressing environmental issues and supporting ecosystem sustainability as habitats. 6. Students are able to connect the roles of community leadership and entrepreneurship in managing bird biological resources through community-based conservation and ecotourism approaches. 7. Students are able to plan bird bio-conservation and bio-ecology regulations and policies applicable at the national and international levels and their implications for biological resource management. 8. Students are able to design the implementation of bird bio-conservation and bio-ecology concepts in various aspects of daily life to increase public awareness and participation in environmental conservation	
Contents	This course discusses the concepts of diversity, morphology, and ecology of birds (members of Aves), including bird evolution and phylogeny, structure and function, bird behavior and communication, the relationship between bird behavior and the environment, reproduction and development, and bird populations. In addition, this course also reviews the benefits of birds (members of Aves) for life and research methods on birds (members of Aves). Learning is carried out with a student-centered approach using the flipped learning model and project-based learning, which is done honestly and independently. The community and ecosystem approaches as concepts and principles for: (1) studying the impact of human activities on the existence and sustainability of life on earth; (2) developing practical approaches to prevent species extinction, maintain genetic diversity within species, and improve all aspects of diversity on earth; (3) studying all aspects of biodiversity, especially in the field of birds on Earth.	
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%)	

Reading lists	1. Bibby, C.J, Burgess, N.D. and Hill, D.A. 1992. Bird Census Tehniques. London: Academic Press Limited 2. Burton, R. 1985. Bird Behaviour. London: Granada Publishing. 3. Howes, J.D.B.(tt).Shore Bird Studies Manual. Kualalumpur: Asian Wetland Publication No. 55. 4. Isakandar, J. 1992. Hobi mengamati Burung di Alam. Bandung: Daharma Karya Cipta. 5. Petingill, O.S. 1970. Ornitologi in Laboratory and Field. Minneapolis: Burgess Publishing Company. 6. Gill, F.B. 2007. Ornithology , Third Edition. New York: W.H. Freeman and Company. 7. Holmes, D.A. dan Nash, S. 1989. The Birds of Java and Bali . Oxford: Oxford University Press. 8. MacKinnon, J., Phillipps K., Balen B. van. 2010. Burung-burung di Sumatera, Jawa, Bali, dan Kalimantan . Bogor: Burung Indonesia. 9. Anonimous. 1992. Konservasi Sumber Daya Alam Hayati dan Ekosistemnya. Jakarta: Departemen Kehutanan. 10. Ayensu, E.S. (ed). 1980. The Life of The Junggle: The Birds. Dalam Junggle. London: Jonathan Cape. 11. Dickson, J.G and J.C. Kroll. 1979 (ed). The role of Insectivorous Bird in Ecosystem. New York: Academic Press. 12. McKinnon, J. 1990. Panduan Pengenalan Burung di Jawa dan Bali. Yopgyakarta: Gajah Mada University Press. 13. Iskandar, J. 1980. Penelitian Ekologi Burung di Beberapa Pedesaan di Daerah Aliran Sungai Citarum. Bandung: Skripsi pada Jurusan Biologi. Universitas Padjadjaran. (tidak diterbitkan) 14. Shanaz, J., P. Jepson dan Rudyanto. 1995. Burung-burung Terancam Punah di Indonesia. Bogor: PHPA/Bird Life International-Indonesia Programe. 15. Sozer, R.Y. Saaroni dan P.F. Nurwata. 1999. Jenis-jenis Burung Dilindungi yang Sering Diperdagangkan. Bandung: YPAL. 16. Van Helvoort, 1981. Bird Population in the Rural Ecosytem of Wst Java. Wageningen: Nature Conservation Dept, agricultural University. Report No. 560 17. Lederer, R. (2020). *Peterson reference guide to bird behavior*. Houghton Mifflin Harcourt. 18. Ackerman, J. (2020). *The bird way: A new look at how birds talk, work, play, parent, and think*. Penguin Press.

9. Kovac, M.(ed), 1992. Biological Indicators in EnvironmentalProtection. Budapest: Akademi Kiado.
10. Iskandar, J. 2017. Ornitologi Dan Etnoornitologi. Plantaxia,Yogyakarta
11. Iskandar, J. 2020. Etnoornitologi: Nama-Nama Lokal Jenis-Jenis Burung Di Indonesia. Innosain, Yogyakarta.