THE MODULE HANDBOOK
DOCTOR BIOLOGY STUDY PROGRAM
FACULTY OF BIOLOGY

SELECTED TOPIC FOR DISSERTATIONS

Ecology

Course code	BIDB203188
Course level	Doctoral Program
Semester/ term	Odd/even
Course coordinator	Dr. rer. nat. Andhika Puspito Nugroho, S.Si., M.Si.
Lecture(s)	Dr. rer. nat. Andhika Puspito Nugroho, S.Si., M.Si.
Language	Indonesian/English
Classification within the Curriculum	Compulsory
Teaching format/ class hours per week during the semester	This course is planned to have 14 teaching weeks and 2 weeks of examination.
Workload	90 hours
Credits	2-0 credits / 3.6 ECTS
Requirements	Receiving approval from the Supervisory Team.
Program Learning Outcome	CPL 2.1. Upon completing this program, the graduates demonstrate an understanding of the scientific philosophy of biology which is related in depth to structure, function, diversity, reproduction, evolution and engineering of biological systems. CPL 2.2. After attending this program, graduates demonstrate an understanding of substantial and leading theory in the field of biology/biological resources in order to support education for sustainable development; CPL 3.1 After completing this program, the graduates will be able to discover or develop new scientific theories/concepts/ideas in biology
Course Learning Outcome	BIDB203188.1 By the end of this course, students will understand the theoretical concepts of Plant Ecology BIDB203188.2 By the end of this course, students will be able to synthesize environmental factors that influence the distribution and abundance of organisms. BIDB203188.3 By the end of this course, students will be able to design and conduct innovative ecological research. BIDB203188.4 By the end of this course, students will be able to conduct in-depth observations of ecological

	problems and formulate scientific solutions based on ecological concepts.
Course Description	This course provides an understanding of theoretical concepts in Ecology, equips students to synthesize the relationships between organisms and their environments that affect organism distribution and abundance, and assists students in designing innovative ecological research, conducting in-depth observations of ecological issues, and formulating scientific solutions based on ecological concepts.
Assessments	The assessment for Selected Topic for Dissertations (Ecology) is based on two main components, with the respective criteria and weights: A. Participatory Activity (50%) • Participation (50%) B. Project (50%) • Project Result/Case Study/Project Based Learning result (50%)
Study Media and Literature	• Krebs, C.J. (1999) Ecological Methodology. 2nd Edition, Benjamin Cummings, Menlo Park, 620 p. • Brewer, R. (1994). The Science of Ecology. Philadelphia: Saunders College Publishing, 1-773. • Brewer, R., & McCann, M. T. (1982). Laboratory and Field Manual of Ecology. Philadelphia: Saunders Publishing. • Odum, E.P. (1971) Fundamentals of Ecology. Third Edition, W.B. Saunders Co., Philadelphia, 1-574.