

Module Distribution

I. Course-Research Program

SEMESTER 1	
Courses	Credits
Integration of Mathematics and Science S3	4
Philosophy of Science	2
Elective Modules	8
Total credits Semester 1	14

SEMESTER 2	
Courses	Credits
Research Proposal	8
Elective Modules	6
Total credits up to Semester 2	28

SEMESTER 3	
Courses	Credits
Research Progress 1	8
Scientific Publications	6
Total credits up to Semester 3	42

SEMESTER 4	
Courses	Credits
Research Progress 2	10
International Publications 1	6
Total credits up to Semester 4	58

SEMESTER 5	
Courses	Credits
Dissertation Exam 1	8
International Publication 2	6
Total credits up to Semester 5	72

SEMESTER 6	
Courses	Credits
Dissertation Exam 2	12
Doctoral Promotion	4
Total credits up to Semester 6	88

II. Research Program

SEMESTER 1	
Courses	Credits
Literature Review 1	5
Literature Review 2	5
Total credits Semester 1	10

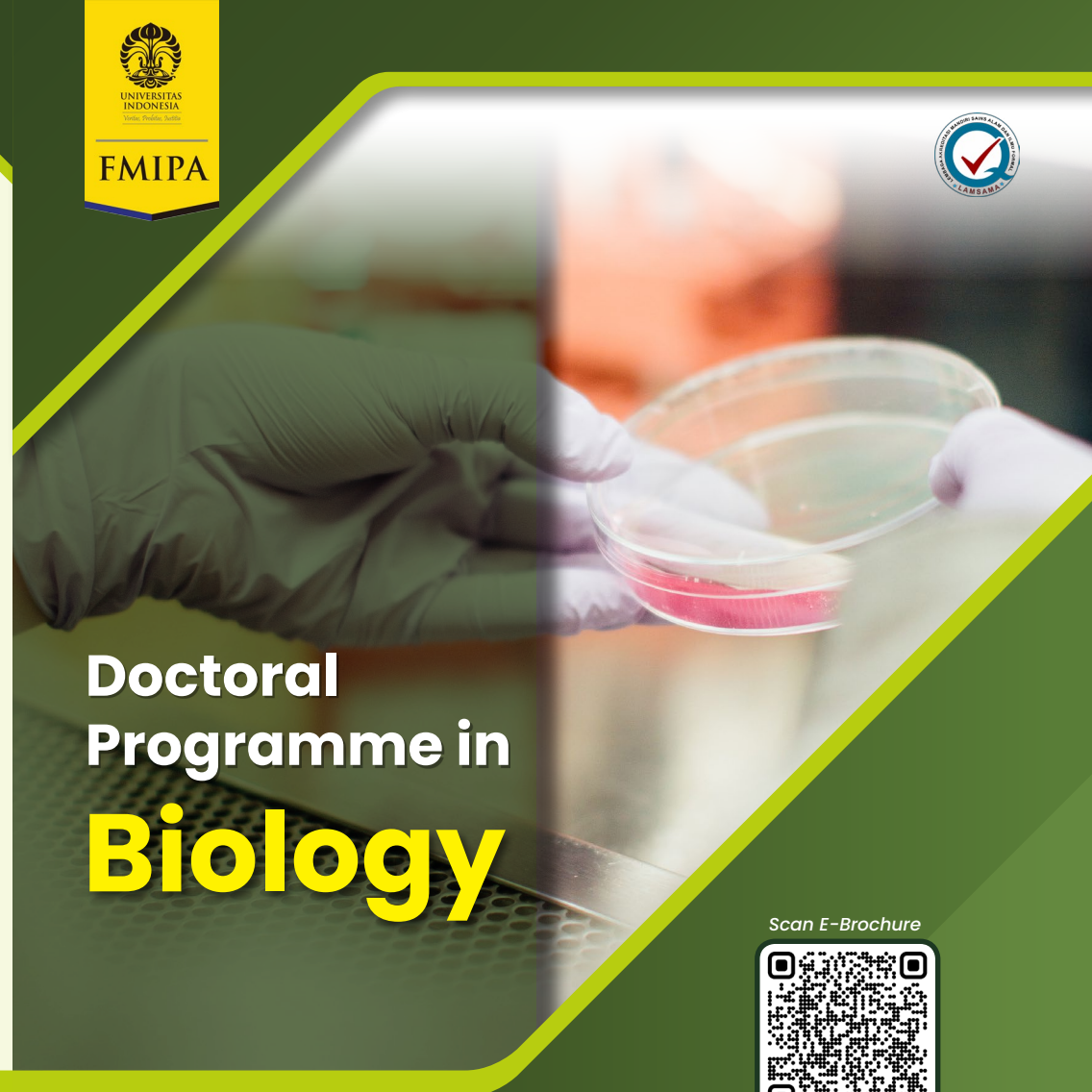
SEMESTER 2	
Courses	Credits
Research Proposal	8
Total credits up to Semester 2	18

SEMESTER 3	
Courses	Credits
Research Progress 1	8
Scientific Publications (R)	10
Total credits up to Semester 3	36

SEMESTER 4	
Courses	Credits
Research Progress 2	10
International Publication 1 (R)	8
Total credits up to Semester 4	54

SEMESTER 5	
Courses	Credits
Dissertation Exam 1	8
International Publication 2 (R)	10
Total credits up to Semester 5	72

SEMESTER 6	
Courses	Credits
Dissertation Exam 2	12
Doctoral Promotion	4
Total credits up to Semester 6	88



Doctoral Programme in Biology

Scan E-Brochure



Information and Registration

penerimaan.ui.ac.id

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Department of Biology

Faculty of Mathematics and Natural Sciences
Universitas Indonesia

Vision

To be the organizer of the tridharma of higher education that excels in the field of biodiversity, especially in the aspects of conservation and bioprospecting, which produces Doctors of Biology who are able to play a role at the national and global levels in advancing science, technology, and sustainable development.

Mission

1. Organizing quality education, research, and community services, especially in the aspects of conservation and bioprospecting of Indonesia's biodiversity.
2. Producing Doctorates in biology who are able to design and manage research independently to create innovative outputs so that they can play a role at the national and global levels in advancing science, technology, and sustainable development.
3. Utilizing the Indonesia's uniqueness of "megadiversity country" to strengthen research capabilities in the field of biodiversity, conservation, and prospecting through collaboration with various international universities and research institutions.

Graduate Profile and Learning Outcomes

Graduate Profile

1. Doctor in biology who has the latest knowledge are able to think critically, ethically, professionally and become lifelong learners.
2. Doctor in biology who is able to develop careers and professionalism in academia, industry, government, and the non-profit sector through lifelong learning, as well as contribute to the network of the scientific community.

Graduate Learning Outcomes (PLO)

1. Able to think critically, creatively, innovatively, and have integrity and intellectual curiosity to solve problems at the individual and group level.
2. Able to design and manage research with the latest knowledge both independently and collaboratively.
3. Able to communicate quality research results through publications and dissemination in scientific meetings.
4. Able to conduct the latest research with a transdisciplinary approach to produce original works that are beneficial to society.

Objective

1. To Produce a doctoral who is professional, have ethic, honesty, integrity, and social responsibility.
2. To produce a doctoral who competence in the field of biology to manage and utilize biodiversity in a sustainable manner.
3. To produce a doctoral who is able to design, manage, and develop innovative research with a transdisciplinary approach in the field of conservation and biodiversity prospecting.
4. To produce a doctoral who is able to communicate research results to the wider community and play a role in the scientific community.

Research Groups



Community Ecology and Environmental Biology (CEEB)

Focuses on functional interactions between communities of plants (producers), herbivores (primary consumers), predators (secondary consumers), and soil biota (decomposers) with regard to critical ecosystem services such as productivity, protection, nutrient cycling and storage.



Cellular and Molecular Mechanism on Biological System (CEMBIOS)

Focuses on the biological mechanism at the level of cellular, molecular, and genomic which occur in the cells as an individual, as well as the building block of an organism including the structure and function of the process underlying a biological system.



Metabolomic and Chemical Ecology (MECE)

Focuses on studying metabolites diversity in organisms related to their biotic and abiotic factors, their function for interaction among organisms (intra and inter specific interaction), as well as their benefit for human welfare.



Microbial Systematics and Prospecting (MSP)

This research group has a strong emphasis on molecular systematics; ecology of prokaryote and eukaryotic microorganisms; the study of the fundamental properties of Bacteria, Archaea, Fungi, Algae, Protozoa, and their interaction with hosts and environment. The group also focus on the development of potential prokaryote and eukaryotic microorganisms for environment, agriculture, food, health, and industries.



Wildlife Biology and Sustainable Landscape (WILD)

This group aimed to direct our collective expertise, experience, and interest to support the Government's commitment to SDGs, particularly Goals 13, 14, and 15. We believe that understanding the biology of wild flora and fauna in a changing landscape and seascape is crucial to ensure that development activities do not surpass nature's carrying and restoring capacity.

Curriculum

The Learning Outcomes of the Study Program reflect the targeted level of academic qualifications and are equivalent to the Indonesian National Qualifications Framework (KKNI) Level 9, the Indonesian Biology Consortium (KOB), and the Qualification European Framework (EQF) Level 8. Admission to the Doctoral Program offers two programs: By Research and By Lecture-Research. Each Program has different curriculum, but the minimum credit for graduation is same (minimum 88 credits, equal to 158.4 ECTS).

