



**IPB University**  
— Bogor Indonesia —

**Department of Forest  
Resources Conservation and  
Ecotourism**

# **ACADEMIC PROGRAM BOOK** **FOREST RESOURCES CONSERVATION** **AND ECOTOURISM** Undergraduate Program



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Bogor, Indonesia

GEDUNG

MAKIPALAT

# LEARNING OUTCOME

## ATTITUDES

Demonstrates devotion to God Almighty, possesses noble character, national awareness, and integrity, has the motivation for continuous self-development; is disciplined, responsible, demonstrates leadership qualities, and is able to collaborate and work effectively with others.

## KNOWLEDGE

- Masters the theoretical concepts and technologies in the field of forest resource conservation in general, as well as advanced theoretical concepts of conservation landscape management, wildlife management, wildlife biodiversity conservation, bioprospecting and sustainable wildlife utilization, environmental services utilization, ecotourism management, and conservation/environmental education.
- Able to integrate fundamental and applied sciences in forest resource conservation, ecotourism, and environmental services, including the protection of ecological processes and life-support systems, conservation of species and genetic diversity, and the sustainable use of wildlife within ecosystems to improve human quality of life, welfare, and ecosystem quality, in an environmentally integrated manner applicable across various professional contexts.
- Masters the theoretical and practical concepts of socio-technopreneurship in the fields of forest resource conservation and ecotourism.



# LEARNING OUTCOME

## GENERAL SKILLS

- Able to think critically, logically, and creatively in designing and conducting research in forest resource conservation, ecotourism, and environmental services utilization, including the protection of ecological processes and life-support systems, biodiversity conservation, and sustainable wildlife utilization to improve human quality of life and welfare. Able to communicate research findings effectively both orally and in writing, demonstrate lifelong learning capabilities, and appreciate social values.
- Able to identify problems and formulate solutions in the fields of forest resource conservation, ecotourism, and environmental services utilization, including the protection of ecological processes and life-support systems, biodiversity conservation, and wildlife utilization.

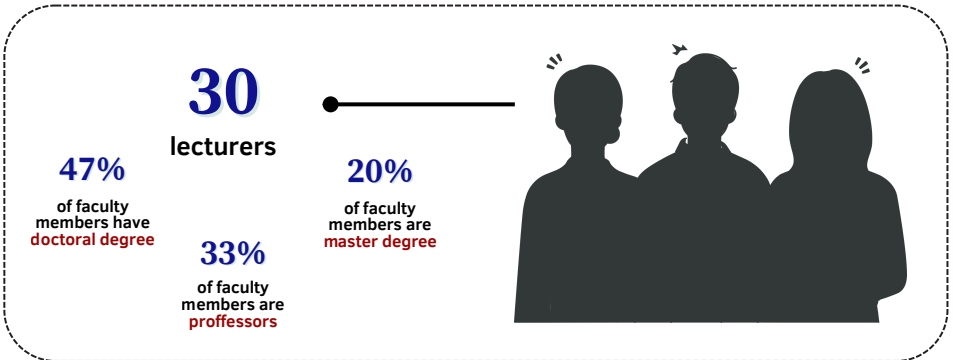
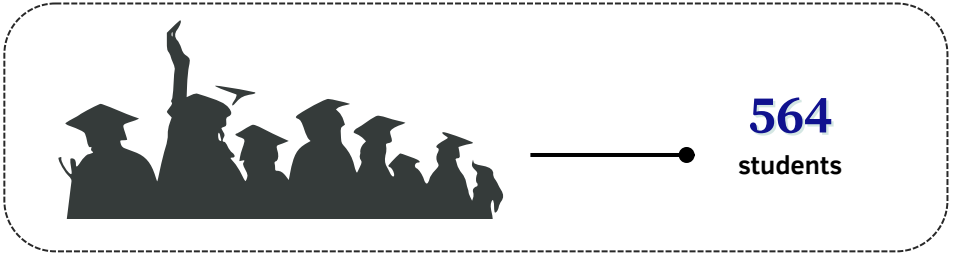
## SPECIFIC SKILLS

- Able to develop and implement plans for the development and management of conservation landscapes, wildlife, wildlife biodiversity conservation, bioprospecting and sustainable wildlife utilization, environmental services utilization, ecotourism management, and environmental education by considering applicable policies and regulations; able to develop and implement business plans; and able to build professional networks in the fields of forest resource conservation and ecotourism.
- Able to conduct identification, documentation, and spatial analysis of forest and environmental resource potentials by adopting and utilizing the latest technologies as a basis for decision-making and management planning.



# PROFILE

## SNAPSHOTS



## ACCREDITATION



Accredited by ASIIN and BAN-PT

# PROFILE

## Description of Study Program

The Study Program of Forest Resources Conservation and Ecotourism (FRCE) in the Faculty of Forestry and Environment, IPB University is dedicated to the development of science, technology, and the arts in the fields of tropical biodiversity conservation, environmental protection, and ecotourism. Based on the mandate to protect life-support systems and to preserve and sustainability use biodiversity and environmental services, the program envisions excellence and leadership by foregrounding the socio-technopreneurship concept to achieve national independence. The program's primary missions are to provide research-based education, develop science, technology, and the arts to address real-world problems, facilitate their implementation in the community, and become a trendsetter in biodiversity conservation and environmental protection.

The curriculum is designed to produce graduates with profiles as planners, professional managers, facilitators for community empowerment, and eco-technopreneurs. Hence, FRCE graduates are equipped with the ability to responsibly and sustainably manage conservation areas and ecotourism, conduct research, and develop businesses based on environmental services and biodiversity.

## Study Program Excellence

The excellence of the FRCE lies in its comprehensive and adaptable curriculum, designed to produce graduates with five featured profiles - planners, managers, research assistants, facilitators, and eco-technopreneurs - ready to address global conservation challenges. As a study program with a vision to be trendsettre, FRCE integrates basic and applied conservation sciences wirrh a socio-technopreneurship approach, equipping students not only with ecology and wildlife management abilities, but also practical skills in GIS and UAV-based spatial analysis, nature-based tourism interpretation, and conservation and ecotourism business.

# PROFILE

## Study Program Excellence

Another prominent feature is holistic learning experiences through integrated field practice, internships, and capstone projects, supported by expert teaching staff in their fields, and close collaboration with various stakeholders. Hence, graduates from FRCE are competent not only in planning and sustainably managing conservation areas but also have entrepreneurial enthusiasm to develop environmental services and the potential for ecotourism. They are also capable facilitators in community development, making them adaptable graduates in industry, government, and non-governmental organizations.

## Five Profiles

The Forest Resources Conservation and Ecotourism (FRCE) Study Program has five graduate profiles, or, in this context, called Program Learning Outcomes (PLOs), which are build on need analysis and consultation with stakeholders, analysis, of trends and developments in forest science, international benchmarking, and references. The five profiles are as follows:

### 1. Planners

Planners who can plan for forest resources conservation, ecotourism, and the sustainable use of environmental services, including environmental analysis, environmental impact assessment, and spatial planning.

# PROFILE

## Five Profiles

### 2. Managers

Professional managers in the field of forest resources conservation management, ecotourism, and environmental services who have leadership, managerial, and responsibility skills in the protection, preservation, and utilization of forest resources, ecotourism, and the environment in a sustainable manne.

### 3. Research Assistant

Research assistants who can designed research, collect, and analyze data, and present the results of research in forest resources conservation, ecotourism, and environmental service use, and disseminate the results to the community.

### 4. Facilitator

Trained facilitators who can design and implement forest community empowerment programs and can improve the community's awareness of forest and environmental conservation.

### 5. Eco-technopreneur

Young entrepreneurs who start a business or design a business idea in the field of sustainable use of forest resources, ecotourism, and environmental services.

# CURRICULUM

## Program Structure

### Program Scheme

**3.5**

**Years at IPB**

Core curriculum  
+ field practice

**0.5**

**Years exposure**

Partner university  
/ international  
component

**1**

**Single Degree**

IPB University  
pathway



# CURRICULUM

## Curriculum of Chemistry Undergraduate

### Semester 1

Course	Credit
Religion of Islam	3(2-1)
Pancasila Education	2(1-1)
Citizenship Education	2(1-1)
Indonesian Language	2(1-1)
Basic Biology	3(2-1)
Economy	2(2-0)
Innovative Agriculture	2(2-0)
Mathematics and Logical Thinking	3(2-1)

### Semester 2

Course	Credit
English	2(1-1)
General Physics	2(2-0)
Basic Chemistry 1	3(2-1)
Sociology	2(2-0)
Computational Thinking	2(2-0)
Statistics and Data Analysis	3(3-0)
Conservation of Biological Resources and Environment	2(2-0)

# CURRICULUM

## Course Mapping

### Semester 3

Course	Credit
Dendrology	3(2-1)
Wildlife Ecology	3(2-1)
Biodiversity Conservation Data Analysis	3(2-1)
Forestry Science and Environmental Ethics	2(2-0)
Outdoor Recreation and Ecotourism	3(2-1)
Conservation and Environmental Policy	2(2-0)
Environmental Mapping, GIS and UAV	3(2-1)
Ethnobiology and Bioprospecting	3(2-1)

### Semester 4

Course	Credit
Forest Ecology	3(2-1)
Silviculture	3(2-1)
Conservation Education	3(2-1)
Wildlife Inventory and Monitoring	3(2-1)
Conservation Communication and Social Science	2(1-1)
Forestry Field Practices	3(0-3)
Valuation Economics of Natural Resource and Environment	3(2-1)
Climatology	3(3-0)

### Semester 5

Course	Credit
Tropical Plant Conservation	3(2-1)
Research Method and Scientific Writing	2(1-1)
Environmental Spatial Analysis	3(2-1)
Pollution and Environmental Impact Control	2(1-1)
Wildlife Behaviour	3(2-1)
Nature-based Tourism and Environmental Interpretation	3(2-1)
Environmental Services	2(2-0)
Conservation and Ecotourism Business	2(2-0)

# CURRICULUM

## Course Mapping

### Semester 6

Course	Credit
Conservation Area and Preservation Area Management	3(2-1)
Wildlife Management	2(2-0)
Forest Medicinal and Food Plants	3(2-1)
Ex-situ Conservation and Wildlife Captivity	3(2-1)
Environmental Management Instruments	2(2-0)
Urban Forest Conservation	2(1-1)
Thematic Community Service Lecture	4(1-3)
Forest Management Planning	3(2-1)
Basic Properties of Forest Products	2(2-0)

### Semester 7

Course	Credit
Nature Conservation Field Practice	3(0-3)
Internship	10(0-10)
Conservation Capstone	3(0-3)
Colloquium	1(0-1)

### Semester 8

Course	Credit
Seminar	3(0-3)
Undergraduate thesis/Non-thesis Final Assignment	10(0-10)
	3(0-3)
	1(0-1)

# FACILITIES



**ALGM Laboratory**



**Exsitu Laboratory**



**Analytical Chemistry Laboratory**



**Physical Chemistry Laboratory**



**Instrument Laboratory**

# FACILITIES



**Conservation Park**



**Campus Forest Park**



**Peacock Aviary**



**Deer Farm**



# INTERNATIONAL COLLABORATION

## List of International Collaboration

	Country/Region	Affiliated Partners
Universities	Malaysia	Universiti Sains Malaysia Universiti Utara Malaysia Putra Business School Universiti Sultan Zainal Abidin
	Cambodia	Kirirrom Institute of Technology
	Japan	Tokyo University of Agriculture
	US	North Dakota State University Fordham University
	UK	Adam Smith Business School University of Glassgow
	Netherlands	Maastricht School of Management
	Croatia	University of Zagreb
	Germany	Hoschule Bremen City University of Applied Science
	Poland	Warsaw University of Life Sciences



# CONTACT

## | The Faculty Campus

The Department of Forest Resources Conservation and Ecotourism, IPB University, is located in Dramaga District, Bogor Regency. It is approximately a 50-minute drive from Bogor City and is accessible by various modes of public transportation (online taxis, buses, and minibuses). The rich natural surroundings provide students with an ideal environment to study.

### Faculty of Forestry and Environment

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