



IPB University
— Bogor Indonesia —

Department of Forest Products
Faculty of Forestry and Environment

ACADEMIC PROGRAM BOOK

FOREST PRODUCTS

Undergraduate Program



@ied_ipb



global.ipb.ac.id



Bogor, Indonesia

GEDUNG

YAKI WALATI

LEARNING OUTCOME

1

Demonstrating religious, moral, and ethical attitudes, honesty, independence, humanism, broad-mindedness, and high motivation as a learner, and taking responsibility for work and entrepreneurship in the forestry sector.

2

Be able to apply logical, critical, systematic, creative, and innovative thinking, and possess the ability to communicate effectively, collaborate in problem-solving, and demonstrate independent, high-quality, and measurable performance.

3

Able to formulate plans and conduct research using proper methodology, interpret data, draft scientific descriptions, draw accurate conclusions, and develop professional networks.

4

Master theoretical concepts and apply forestry science to sustainable forest management, encompassing planning, cultivation, management, harvesting, processing, marketing, and environmental aspects.

5

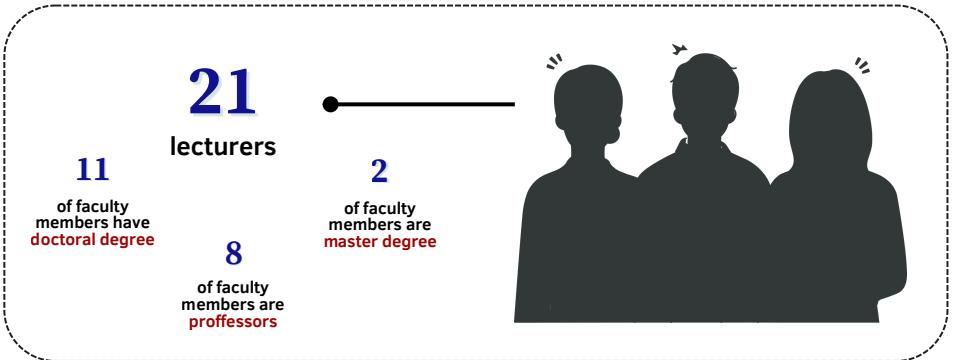
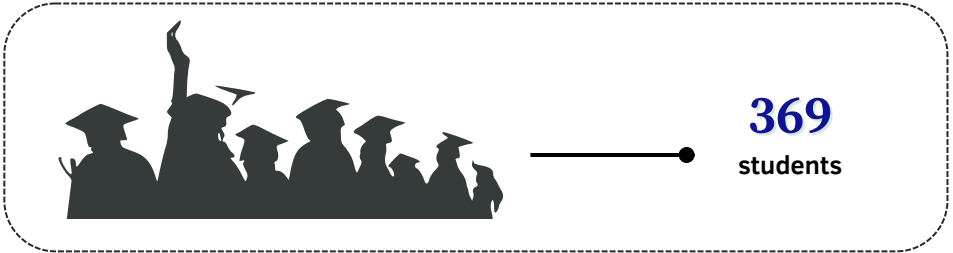
Ability to apply science and technology in the field of wood and non-wood forest products characteristics as raw materials for the forest product industry.

6

Ability to apply process and product science and technology in the fields of wood quality improvement, biocomposites, wood building design and engineering, forest products biorefinery, production management, marketing, and forest products industry efficiency.

PROFILE

SNAPSHOTS



ACCREDITATION



Accredited by BAN-PT

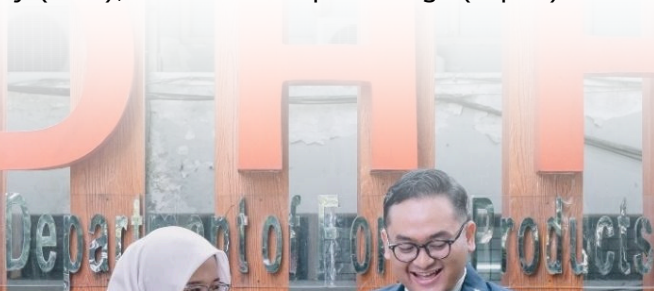
PROFILE

A Brief History

The Department of Forest Products (DHH), Faculty of Forestry and Environment, Bogor Agricultural University (IPB University), is a **pioneer** in the development of Forest Products Science and Technology in Indonesia. Established in 1969, DHH is the oldest Department of Forest Products in Indonesia and focuses on the development of scientific fields and technologies related to forest products, including wood quality improvement technology, timber engineering and building design, biocomposites and forest products biorefinery, as well as forest products industry management.

The Forest Products Technology Study Program is one of the study programs under the Department of Forest Products, Faculty of Forestry and Environment, IPB University. The Forest Products Technology Study Program has been awarded the **“Excellent” accreditation** status based on the decree of the National Accreditation Board for Higher Education (BAN-PT) No. 6710/SK/BAN-PT/Ak.KP/S/XI/2024 dated November 12, 2024, which is valid until January 11, 2027.

DHH has established several collaborations with various international institutions, including Université de Lorraine (France), Universiti Putra Malaysia (Malaysia), Gifu University (Japan), Oregon State University (USA), and Iida Group Holdings (Japan).



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

Semester 2

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

CURRICULUM

Course Mapping

Semester 3

Course	Credit
Dendrology	3(2-1)
Silviculture	3(2-1)
Forest Resources Inventory	3(2-1)
Wood Anatomy and Identification	2(2-0)
Wood Physics	2(2-0)
Wood Chemistry	2(2-0)
Wood Construction Materials	2(2-0)
Practice of Wood Anatomy and Chemistry	1(0-1)
Practice of Wood Physics and Mechanics	1(0-1)
Optimization in Forest Product Industry	2(2-0)

Semester 4

Course	Credit
Forest Ecology	3(2-1)
Forest Harvesting	3(2-1)
Forest Management Planning	3(2-1)
Wood Deterioration and Protection	3(2-1)
Statics and Strength of Material	3(2-1)
Processing Technology of Non-Timber Forest Products	2(2-0)
Forestry Field Practices (PLK)	3(0-3)

Semester 5

Course	Credit
Forest Product Data Analysis	3(2-1)
Adhesives for Wood and Lignocellulosic Materials	3(2-1)
Woodworking and Design	3(2-1)
Biomass Energy	2(2-0)
Practice of Non-Timber Forest Products and Biomass Energy	1(0-1)
Plywood Industry Technology	2(2-0)
Managerial Economics for Forest Products	2(2-0)

CURRICULUM

Course Mapping

Semester 6

Course	Credit
Research Methodology and Scientific Writing	2(2-0)
Forest Products Marketing and Business	3(2-1)
Timber Engineering and Construction	3(2-1)
Pulp and Paper	3(2-1)
Particle and Fiber Composites Technology	2(2-0)
Biocomposite Practice	1(0-1)
Environment and Forest Products Policy	2(2-0)
Thematic Field Work	4(0-4)

Semester 7

Course	Credit
Colloquium	1(0-1)
Field Work Practice / Internship (PKL)	4(0-4)

Semester 8

Course	Credit
Seminar	1(0-1)
Undergraduate Thesis	6(0-6)

Enrichment Courses/Programs

Course	Credit
Basic Properties of Forest Products	2(2-0)
Forest Product Processing	2(2-0)

FACILITIES



Termite Rearing Unit



Laboratory of Timber Engineering and Building Design



Laboratory of Non-Timber Forest Products

INTERNATIONAL COLLABORATION

List of International Collaboration

	Country/Region	Affiliated Partners
Universities	Japan	University of Tokyo Gifu University
	France	Universite de Lorraine
	Malaysia	Universiti Putra Malaysia
Industry	Indonesia	Iida Group Holdings



岐阜大学
GIFU UNIVERSITY



CONTACT

| The Faculty Campus

The Department of Forest Products, 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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