



IPB University
— Bogor Indonesia —



IPB UNIVERSITY SUSTAINABILITY DEVELOPMENT GOALS SDGs Report 2024



Book Titles:

SDGs Report 2024

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GLOSSARY

A

ASIIN : Accreditation Agency for Study Program in Engineering, Informatics, the Natural Sciences, and Mathematic

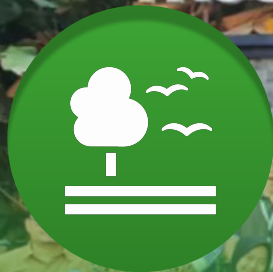
AUN-QA : ASEAN University Network-Quality Assurance

K

KKN : Kuliah Kerja Nyata (Thematic Students Community Service Program)

S

SDN : Sekolah Dasar Negeri (Public Elementary School)



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

1

Learning Program

The Faculty of Forestry and Environment (FAHUTAN) at IPB University offers four undergraduate programs, namely Forest Management, Silviculture, Forest Product Technology, and Conservation of Forest Resources and Ecotourism (KSHE). These programs focus on:



In addition, the Biology study program contributes to biodiversity education through the Animal and Environmental Biosciences specialization, which provides students with a comprehensive understanding of animal biology, ecology, and environmental sustainability. Courses such as Animal Biodiversity, Plant Biodiversity, Environmental Biology and Conservation, and Indonesian Ethnobiology introduce students to the diversity and taxonomy of flora and fauna, ecological interactions across ecosystems, and the principles of species conservation. The Indonesian Ethnobiology course further explores the relationship between local cultures and biological resources, highlighting the significance of traditional knowledge in biodiversity conservation and sustainable natural resource management.

To enhance academic enrichment and global exposure, a guest lecture delivered by a researcher from the University of Washington provided insights into worldwide biodiversity challenges, encouraging students to connect local conservation issues with global perspectives.



Furthermore, IPB University strengthened international collaboration through the International Summer Course on Forestry and Environment (ForSC), which brought together 132 participants from 27 universities across seven countries to discuss tropical forest management and climate change mitigation through lectures, workshops, and field visits.



The Tropical Biodiversity Conservation (KVT) Program also advanced its international engagement by involving students and lecturers in major global events such as the World Congress of Herpetology and the International Conference on Responsible Tourism and Hospitality, expanding research capacity and fostering collaboration in biodiversity conservation.





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2

Research and Innovation

Scientific research at IPB University continues to play a pivotal role in advancing SDG 15: Life on Land, emphasizing forest conservation, ecosystem restoration, and biodiversity preservation. The **5th International Conference on Environment and Forest Conservation (ICEFC)** provided a platform for global collaboration, where experts discussed strategies for adapting forest management to the Anthropocene era. This initiative strengthened interdisciplinary dialogue on sustainable forestry, climate adaptation, and human-wildlife coexistence.

The **AgroForStain (Agroforestry for Sustainability) Program**, a collaboration between the Department of Silviculture and the Trenggalek Regency Government, applies innovative technologies such as drone seeding, micro-seedcookies, and seedbombs to rehabilitate degraded land while promoting low-carbon practices among local communities.

At the same time, researchers from the School of Veterinary Medicine and Biomedical Science are developing **in vitro fertilisation (IVF)** technology for endangered species like the Sumatran rhino, combining assisted reproduction and bio-banking to safeguard genetic diversity. Together, these initiatives highlight IPB University's strong commitment to science-based conservation and sustainable land management.



Research in Number



1101

scholarly output in 2020-2024



101

FWCI in 2020-2024



7727

citation count in 2020-2024



26,00%

of all Indonesian citation count



22,69%

of all Indonesian scholarly output

3

Campus Operation

IPB University's academic programs and operational policies promote sustainable campus management aligned with biodiversity protection. The **KSHE Program emphasizes hands-on conservation learning supported by field facilities such as the Educational Forest of Gunung Walat and Gunung Gede Pangrango National Park**, while international accreditations (AUN-QA and ASIIN) ensure that biodiversity conservation principles are embedded in institutional governance and curriculum standards. Campus policies further encourage green learning spaces and environmentally responsible research practices, reinforcing IPB's role as a model for eco-conscious higher education. In 2024, IPB University and Astra International established the **Astra Sustainable Forest in Garut, West Java**, as part of a carbon offset partnership covering 868 hectares through agroforestry-based reforestation.





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Building on initiatives such as Rector Decree No. 133/IT3/LK/2020,

IPB University actively manages its campus as both an educational and conservation zone

Over the past 25 years, **monthly biodiversity monitoring led by Dr. Abdul Haris Mustari**, a lecturer from the Department of Conservation of Forest Resources and Ecotourism (KSHE), has documented the diversity of mammals, birds, reptiles, amphibians, butterflies, and plants within the campus, making it a living laboratory for biodiversity research and conservation learning.

The Dramaga Campus has various thematic conservation areas—including the Biodiversity Park (Taman Kehati), Bamboo Arboretum, Cikabayan Forest Park, Al-Hurriyyah Mosque Forest, and the Arboretum of the Faculty of Forestry and Environment. These areas harbor diverse species such as the leopard cat (*Prionailurus bengalensis*), long-tailed macaque (*Macaca fascicularis*), various kingfishers (*Halcyon* spp.), amphibians, reptiles, and numerous native tree species including Shorea, Dipterocarpus, Khaya, and Ficus.

Biodiversity



Together, these ecological assets form the foundation of IPB University's "green campus" model—where biodiversity conservation, education, and sustainable management are deeply integrated into daily operations.

Recognized by the government for its leadership, IPB University continues to advance **land restoration and biodiversity conservation** through habitat rehabilitation, rare species planting, and ongoing monitoring. These efforts position IPB as a national model for sustainable campus management that promotes ecosystem resilience and environmental awareness.

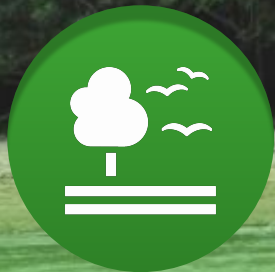


4

Community Engagement

IPB University actively engages local communities and partners in conservation outreach and sustainable ecosystem development. The Primate Research Center (PSSP) and the Graduate Program in Primatology carried out an **environmental education and conservation outreach program** at SDN 3 Cikiruh Wetan, Pandeglang, introducing young students to biodiversity and wildlife protection through interactive learning. This initiative reflects IPB's commitment to fostering environmental awareness at the grassroots level.





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Through a collaborative conservation project with Tunas Sawa Erma (TSE) Group, IPB University works to protect the pig-nosed turtle (*Carettochelys insculpta*) in the Kao and Muyu rivers, Boven Digoel, Papua. This five-year partnership (2022–2026) combines ecological research and community participation to protect this endemic and legally protected species. IPB researchers led by Dr. Mirza Dikari Kusri study the turtles' movement patterns and promote sustainable conservation strategies in collaboration with local communities. In addition, the **Green Synergy Program** launched by the Directorate for Community Development and Agromaritime (DPMA) and the Faculty of Forestry and Environment, in partnership with FIFGROUP, promotes sustainable forest management in Garut through reforestation and livelihood empowerment. Together, these initiatives demonstrate IPB University's strong integration of science, education, and community partnership to advance biodiversity conservation and land sustainability.



These activities document a wide range of species—including birds, mammals, reptiles, and amphibians—while enhancing students' capacity in ecological observation, wildlife identification, and conservation communication.

The Department of Biology's student association (Himabio) also organized **OWA Visit Himabio 2024** through its semi-autonomous organization, Observasi Wahana Alam (OWA), at Citalahab Forest, Mount Halimun Salak National Park, where participants observed the behavior and ecology of the Javan gibbon (*Hylobates moloch*), a critically endangered primate endemic to Java. The program provided students with hands-on experience in wildlife observation and fostered awareness of the ecological significance of primate conservation in Indonesia.



Student Activity

Student-led initiatives at IPB University demonstrate strong contributions toward biodiversity conservation and sustainable ecosystem management. The **Fauna Conservation Union (UKF)** consistently advances field-based learning through biodiversity monitoring in key conservation sites such as **Cikepuh Wildlife Sanctuary** and the **Bodogol Nature Conservation Education Center**.





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Similarly, the **HIMAKOVA Conservation Bakti Seminar** showcased students' exploration results from the Sempu Island Nature Reserve, emphasizing the ecological importance of small islands and the hidden potential of Indonesia's biodiversity.



Beyond research and field studies, IPB students actively promote community-based sustainability actions. The United Fauna Conservation Union (UKF) also organized a **webinar on biodiversity management and green space strategies** for the Dramaga Campus, fostering awareness of urban biodiversity within academic environments.



Meanwhile, KKN-T students in Ciranggon Village, Karawang, led a **"Greening Ciranggon"** program by planting home gardens to increase vegetation cover and promote sustainable living practices among local residents. Together, these student-driven initiatives embody IPB University's spirit of collaboration, innovation, and environmental stewardship in achieving SDG 15 targets.





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" Conservation is cheaper than resurrection."



SDGs Report 2024 : Supplementary Report