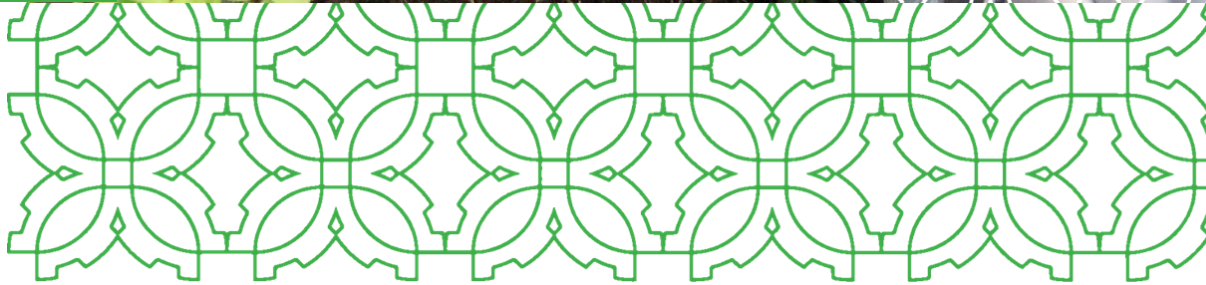




15 LIFE ON LAND



Stewardship

Stewardship and Sustainable Land Management at ITS

ITS demonstrates a strong commitment to conserving terrestrial ecosystems through integrated policies and actions guided by the Rector's Circular Letter on Green and Sustainable Campus Development (2024).

This stewardship is reflected in multiple dimensions: ensuring sustainably farmed food and ethical canteen management, integrating biodiversity conservation in campus planning, preventing invasive species, protecting wildlife and vulnerable ecosystems, and promoting education and research on ecological preservation.

Furthermore, ITS enforces a comprehensive waste management policy aligned with the 3R principles, reducing plastic usage, and ensuring the responsible handling of hazardous waste (B3). Through these actions, ITS contributes to the global goals of maintaining ecosystem resilience, protecting biodiversity, and fostering sustainable land use within and beyond the campus environment.

Outreach



Sustainable Land Restoration and Community Based Ecotourism

ITS strengthens the sustainability of terrestrial ecosystems by combining environmental restoration with livelihood development through various community outreach programs. In Bawean Island, mangrove planting and rehabilitation initiatives engage local residents in restoring degraded coastal areas while improving ecological resilience. The same spirit of sustainability extends to urban environments through urban farming projects in Surabaya, where residents receive training and technical assistance to optimize limited land for productive and eco-friendly agriculture.

Beyond urban and coastal efforts, ITS also promotes ecosystem based ecotourism and educational tourism in Sleman, Nganjuk, and the Bromo Tengger Semeru area. In these regions, local communities actively participate in reforestation, landscape planning, and land-use education as part of integrated conservation efforts.



Collectively, these initiatives represent a holistic approach that not only rehabilitates diverse ecosystems but also enhances community capacity, strengthens local economies, and fosters long-term stewardship of natural resources.

Biodiversity Education and Environmental Awareness

Complementing its field based restoration efforts, ITS advances biodiversity conservation through education, public awareness, and participatory learning. A series of workshops, seminars, and citizen science programs, such as biodiversity monitoring and environmental training for teachers and local communities in Surabaya and East Java, enhance public understanding of ecosystem dynamics and strengthen collective responsibility for conservation.

These educational initiatives are further supported by environmental awareness campaigns, including tree-planting movements and Earth Day celebrations, which unite students, faculty, and the wider community in practical environmental actions. By integrating scientific knowledge with community participation, these programs nurture a culture of ecological responsibility and inspire collaborative efforts to preserve biodiversity and safeguard terrestrial ecosystems for future generations.

Teaching



Teaching for Sustainability: Raising Biodiversity Awareness at ITS

Lecturers, staff, and students from ITS are provided with opportunities to take part in a continuous learning program focused on sustainable urban agriculture and ecosystem management. Conducted every Friday through hybrid sessions lasting two hours each, the program delivers practical training on Carbon Neutrality, Ecosystems, Biodiversity, and Environmental Sustainability.

A total of 61 participants joined the program, showcasing their creativity and gardening skills by cultivating various types of herbal plants without the use of chemical fertilizers or pesticides. Through these weekly sessions, equivalent to 8–10 hours of learning per month, participants enhance their knowledge of sustainable land use and biodiversity conservation, while fostering a culture of environmental awareness and stewardship within the academic community.

Research

Supporting ecosystem biodiversity, the Directorate of Research and Community Service at ITS provides opportunities for lecturers and researchers to obtain funding and equipment for wildlife research, habitat monitoring, and environmental conservation through the Wildlife Acoustics Grant Program. These resources aim to generate valuable scientific data, foster conservation innovation, and contribute to biodiversity preservation.