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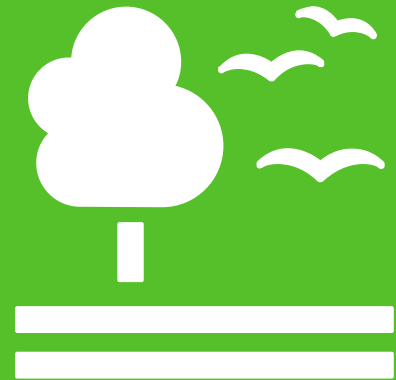


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“Life on land is a precious resource – we need to ensure that it is passed on to future generations, at a time when loss of biodiversity is an increasing concern. Different universities will have responsibility for very different landscapes and the life within, but all have a responsibility as stewards of their environment.”

-THE Impact Rankings

15 LIFE ON LAND



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4.2

Impact Factor

RESEARCH IN NUMBERS (2024)



79

publications



15 LIFE ON LAND



SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

1 Tree Planting and Greening Movement for Environmental Sustainability

The Faculty of Mathematics and Natural Sciences (FMIPA) of Universitas Sebelas Maret (UNS) Surakarta continued its **tree-planting tradition** for lecturers who have recently completed their doctoral studies as part of the university's environmental conservation efforts. In 2024, FMIPA welcomed seven new doctors who participated in the ceremonial tree planting. This activity serves as **a tangible symbol of the faculty's contribution to maintaining ecological balance** amid the growing challenges of climate change and environmental degradation.



The Faculty of Engineering (FT) of UNS also held **a tree-planting event to welcome nine newly awarded doctors**. Through this activity, the faculty not only celebrated academic achievement but also **reaffirmed its commitment to fostering a healthy, sustainable, and innovative academic environment**. The tree planting represents growth, rooted contribution, and dedication to a better future.



FMIPA UNS also organized the FMIPA Mengabdi (FMIPA Serving the Community) program in 2024, centered in Bulu Subdistrict, specifically in Tiyanan and Gentan. The series of activities included **tree planting, distribution of food aid packages, free health check-ups for the elderly, clothing bazaar, and the FMIPA Teaching program for students** of SMPN 3 Bulu. The tree planting was carried out by handing over seedlings to the village heads of Tiyanan and Gentan, who then distributed them to local residents in need. **A total of 300 tree seedlings were distributed**, consisting of 40 teak, 40 gmelina, 40 sengon, 40 cashew, 40 petai, 40 lamtoro, 40 kaliandra, and 20 avocado trees. The initiative is expected to promote reforestation and environmental restoration in the two villages.



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SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

The Karya Salemba Empat (KSE) community UNS planted **40 trees** as part of the Gebyar Penanaman Pohon di 40 Titik se-Nusantara (National Tree Planting Festival at 40 Locations) in Sowijayan, Sewu, Jebres, Surakarta. The initiative aimed **to expand urban green spaces and involved collaborations with the Sibat Sewu and Karya Lepen communities** under the Bengawan Solo River Basin Agency (BBWS). The seedlings were provided through cooperation with the Solo Watershed Management Agency (BPDAS). The 40 planted trees consisted of fruit-bearing species selected for their productivity and contribution to the community.



UNS also planted **3,000 Sonokeling seedlings** during the Green Campaign Alas Bromo 2024 within the Special Purpose Forest Area (KHDTK) of Mount Bromo, Karanganyar. This green campaign supports the achievement of the FOLU Net Sink 2030 target at achieving a net reduction of greenhouse gas emissions by ensuring that carbon absorption exceeds emissions by 2030.

2 Environmental Service Compensation Scheme to Support Terrestrial Ecosystem Conservation



Students from the Merdeka Belajar Kampus Merdeka (MBKM) program at Universitas Sebelas Maret (UNS) Surakarta participated in **the Environmental Service Compensation (Imbal Jasa Lingkungan – IJL)** initiative, organized by the Institute for Rural Technology Development (LPTP) Surakarta. The IJL program aims **to prevent economic losses associated with environmental degradation while promoting ecosystem conservation and providing mutually beneficial income for land users.**

The IJL program, implemented in March 2024, was a collaboration between LPTP Surakarta and Aqua. Activities took place in several areas, including Dukuh Gumuk and Dukuh Kayulawang in Mriyan Village, Tamansari Subdistrict, and Pagerjurang Village, Musuk Subdistrict, Boyolali Regency. **The program serves as an important step in aligning local livelihoods with environmental sustainability and resource conservation.**