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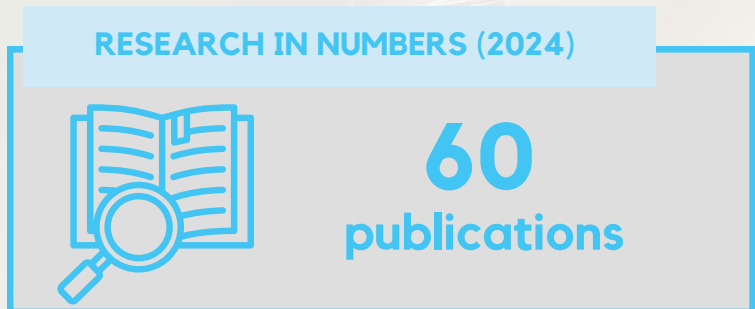
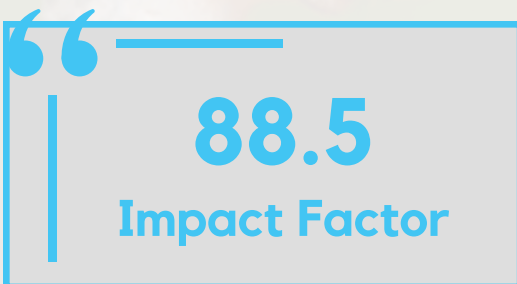
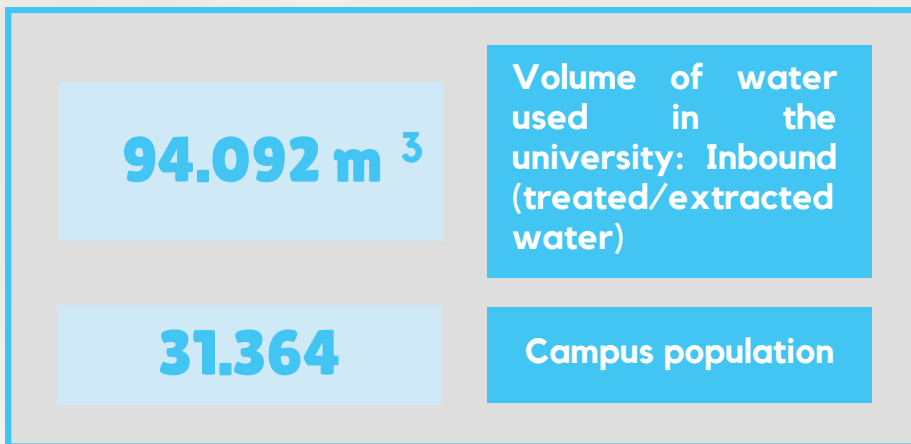
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6 CLEAN WATER AND SANITATION



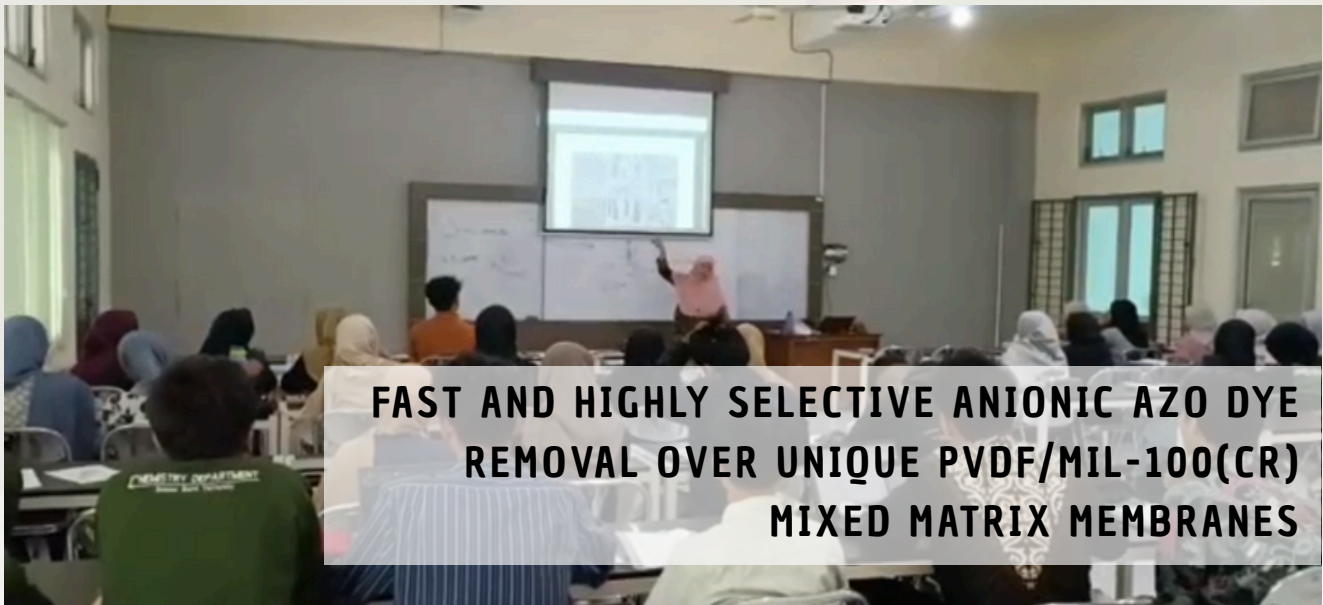
“Without water we can’t live. Water supports out agriculture and aquaculture. Clean water is vital. However, due to bad economics or poor infrastructure, millions of people including children die every year from diseases associated with inadequate water supply, sanitation and hygiene.”

-THE Impact Rankings



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

SDG 6



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RESEARCH ARTICLE

The study developed **PVDF/MIL-100(Cr) mixed matrix membranes** for efficient removal of anionic azo dyes like Congo Red. The membranes showed **fast adsorption, high selectivity, and good reusability**, making them promising for wastewater treatment in the textile industry.



6 CLEAN WATER AND SANITATION



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

1 UNS Chemical Engineering Student Wins Second Place in National Essay Writing Competition

A student from the Chemical Engineering Study Program, Faculty of Engineering (FT) at Universitas Sebelas Maret, Muhammad Yazid Ar-Rasyid, **successfully won second place in the National Essay Writing Competition** organized by the Student Executive Board (BEM) of the Faculty of Industrial Technology, Universitas Pembangunan Nasional Veteran Yogyakarta. This national competition brought together young writers from universities across Indonesia to compete in scientific writing. After a series of rigorous selection stages, Yazid proudly brought home the runner-up trophy, representing FT UNS.

Yazid presented an innovative essay on **“The Production of Cellulose Acetate Membranes”** under the product name Celltane. This idea aims **to create a product capable of purifying dirty or murky water**, particularly targeting remote areas in Surakarta that still face limited access to clean water. By utilizing cellulose membrane-based technology, Celltane offers **a sustainable solution to address clean water needs** and aligns with the Sustainable Development Goals (SDGs) 2030, particularly Goal 6: Clean Water and Sanitation for All.



2 UPZ UNS Inaugurates Its 7th Clean Water Well Program in Sambirejo Lor, Jatiroto, Wonogiri

60 residents



The Zakat Collection Unit (UPZ) of Universitas Sebelas Maret reaffirmed **its commitment to improving community welfare by inaugurating its seventh clean water well program** in Sambirejo Lor, Jatiroto Village, Jatiroto District, Kabupaten Wonogiri. to help the community address water scarcity—especially during the dry season. This initiative is expected **to provide a long-term solution, improving public health, supporting economic activities, and enhancing the community's overall quality of life.**

6 CLEAN WATER AND SANITATION



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

3 | UNS Engages Community in Biopore Creation Movement

Universitas Sebelas Maret continues to innovate in promoting sustainability by **encouraging community participation in environmental initiatives**. UNS carried out biopore creation activities at several locations in Kelurahan Jebres, including SD Negeri Purwoprajan II, SD Negeri Bulukantil, SD Negeri Kandangsapi, Taman Cerdas, Masjid Nurul Huda, and the Faculty of Teacher Training and Education (FKIP) UNS.

The activity actively **involved local residents in both creating and maintaining the biopores**. Besides improving water absorption, biopores also support better public health, enhance environmental aesthetics, and raise community awareness and commitment to protecting the environment.



4 | 100 Biopore Holes to Support Green Campus Program

In support of the Green Campus Movement, the Faculty of Mathematics and Natural Sciences (FMIPA) at UNS implemented a program **to create 100 biopore holes across 21,000 square meters of paved and green areas around the faculty**. This initiative aims to increase rainwater infiltration and improve soil quality, aligning with environmental conservation and sustainable resource management efforts.

Beyond **improving water absorption** and soil health, biopores also contribute to effective organic waste management. By producing natural compost from organic waste, the faculty helps **maintain campus cleanliness and enrich soil quality**, which benefits vegetation growth. Furthermore, the presence of biopores supports urban water conservation, particularly in areas vulnerable to waterlogging.

