Industrial University of Ho Chi Minh City

SDG 06
CLEAN WATER AND SANITATION

IUH RANKINGS MANAGEMENT

SDG 6

CLEAN WATER AND SANITATION

NƯỚC SẠCH VÀ VỆ SINH

THE Sustainability Impact Ratings 2027

Data year	Metrics	Indicators
2025	4	16

IUH supports responsible water use through campus water management and reuse, access to clean water, and water conservation awareness across the University and surrounding communities.













NATURAL RESOURCES GROUP

SDG Working Group • 7 members



Đỗ Hoài Vũ

GROUP LEADER

Vice Dean · Faculty of Fundamental Sciences



Bùi Thị Hảo

MEMBER · VICE DEAN

Faculty of Law and Political Sciences



Cao Thu Thủy

MEMBER · LECTURER

Institute of Environmental Science, Engineering and Management - IESEM



Nguyễn Khôi Nguyên

MEMBER · LECTURER

Faculty of Automotive Engineering Technology



Đinh Thị Hoa

MEMBER · LECTURER

Faculty of Foreign Languages



Lê Thị Hồng Nhung

MEMBER · SPECIALIST

Office of Testing and Quality Assurance



Lý Xuân Hải

MEMBER · SPECIALIST

Office of Testing and Quality assurance

Industrial University of Ho Chi Minh City

NHÓM 6.2 – WATER CONSUMPTION PER PERSON

SDG 06 CLEAN WATER AND SANITATION

6.2.1 Measure the total volume of water used in the university

Đo lường tổng lượng nước sử dụng tại Trường.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building a green campus (Building Green Campus); Reducing the water consumption rate (% reduction in water consumption)	Install and digitise a smart water-meter system in all teaching buildings, dormitory areas, canteens and technical stations at the main campus and branch campuses.	Water-meter network diagram; Procedure for monthly periodic recording of water meter readings; Consolidated report on water consumption volume across the entire University (Whole university)	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q4 2025
Thrust 1: Pioneering Education and Research	Implementing big data and Internet of Things projects (Big data and IoTs projects)	Students and lecturers of the Information Technology and Electronics faculties develop an application for real-time water consumption monitoring (IoT Water Metering) that provides early warnings of pipe leaks.	Online water-flow monitoring software system; Acceptance report for the IoT project applied to campus water management	Office of Facilities Administration, Specialised Faculties/Institutes	Q2–Q4 2025
Thrust 1: Pioneering Education and Research	Standardising the University-wide database; Reconciling data for ranking purposes	Compile and independently audit 2024 water consumption data from water utility invoices and borehole water metering logs (if any), using the official THE templates.	University-level water consumption audit report for 2024; Data reconciliation record for submission to the THE data portal	Office of Testing and Quality Assurance, Office of Finance and Accounting, Institute of Environmental Science, Engineering and Management (IESEM)	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.2 – WATER CONSUMPTION PER PERSON

SDG 06 CLEAN WATER AND SANITATION

6.2.1 Measure the total volume of water used in the university

Đo lường tổng lượng nước sử dụng tại Trường.

DATA TO BE COLLECTED

DATA	Validation	
Volume of water used in the university: Inbound (treated/extracted water)	96,427	m³
Campus population	29,898	

COMMENT

The 2025 water consumption of 96,427 m³ is based on monthly water meter readings and utility bills retained by IUH: 90,214 m³ at the Go Vap campus and 6,213 m³ at the Nguyen Van Dung campus. Consumption per reported campus population is relatively low because most students attend according to class timetables and employees follow working schedules rather than occupying campus 24 hours a day throughout the year; only a small proportion of students reside in dormitories. Water demand also varies during Tet, summer breaks and public holidays, when campus attendance decreases. The campus has mature shade trees and drought-tolerant vegetation, helping limit irrigation demand. IUH maintains monthly billing and consumption records to substantiate the reported volumes.

Industrial University of Ho Chi Minh City

NHÓM 6.2 – WATER CONSUMPTION PER PERSON

SDG 06 CLEAN WATER AND SANITATION

6.2.2 Average water consumption per person

Mức tiêu thụ nước bình quân đầu người

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Green campus; Improving the effectiveness of facilities maintenance (% of spending per student)	Review and replace old sanitary fixtures with sensor-activated self-closing taps and water-saving toilets in order to lower average water consumption per person.	Acceptance record for the installation of water-saving sanitary fixtures; Report on the reduction rate in average water consumption per capita compared with the preceding year	Office of Facilities Administration, Office of Dormitory Management, Office of Services	Q1–Q3 2025
Thrust 1: Pioneering Education and Research	Standardising University-wide data; Converting population size to the FTE standard	Extract data on total water use (m^3) and accurately calculate the Campus population (FTE), comprising ISCED 6, 7 and 8 students and all University staff, for 2024.	Standardised data table: Total water consumption (m^3) and Campus population (FTE); Water invoice supporting documents for ranking audit purposes	Office of Testing and Quality Assurance, Office of Academic Affairs, Office of Organisation and Administration	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.2 – WATER CONSUMPTION PER PERSON

SDG 06
CLEAN WATER AND SANITATION

6.2.2 Average water consumption per person

Mức tiêu thụ nước bình quân đầu người

DATA TO BE COLLECTED

DATA	Validation	
Average water consumption per person : Inbound (treated/extracted water)	3.23	m³ / person / year
Campus population	29,898	

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.1 Wastewater treatment

Xử lý nước thải

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building a green campus; Managing environmental safety on campus	Operate continuously and maintain periodically the University's centralised Wastewater Treatment Plant; automatically monitor the pH, COD and BOD parameters before discharge.	Wastewater treatment plant operation log; Periodic maintenance report for the air blower and biofilter systems; Valid environmental permit	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q4 2025
Thrust 1: Pioneering Education and Research	Strengthening applied research; Benchmarking environmental quality	Periodically collect monitoring samples of the effluent from the University and its laboratories, and analyse them at laboratories meeting the ISO/IEC 17025 standard.	Periodic environmental monitoring results report, four rounds per year; Water quality analysis certificates meeting the discharge standard QCVN 14:2008/BTNMT	Institute of Environmental Science, Engineering and Management (IESEM)	Quarterly throughout 2025
Thrust 1 & Thrust 2: Pioneering Education & Community Engagement	Developing technology products for transfer (Technology transfer product)	Lecturers of IESEM research improvements to membrane bioreactor (MBR) technology for treating wastewater from chemical laboratories.	Applied research project report; Experimental model for on-site chemical wastewater treatment achieving high treatment efficiency	Specialised Faculties/Institutes	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.1 Wastewater treatment

Xử lý nước thải

ACTIVITY EVIDENCE


PRINTING INK WASTEWATER TREATMENT FROM PRINTING PLANT OF INDUSTRIAL UNIVERSITY OF HO CHI MINH CITY BY FENTON'S ADVANCED OXIDATION PROCESS, APPLY FOR 10L/H CAPACITY MODEL

Tạp chí KHOA HỌC & CÔNG NGHỆ

VŨ ĐÌNH KHANG
BÙI THỊ NGỌC PHƯƠNG

Abstract

The main purpose of this study was to determine optimal operating values such as pH, catalyst dosage, reaction time (or Hydraulic Retention Time-HRT) of advanced oxidation process to efficiency of oxidation on the contaminant from printing ink wastewater. Basic experiments were conducted with printing ink wastewater from Printing plant. The corresponding results show that: optimal operating pH = 3; optimal concentration of H_2O_2 30% = 2.5ml/250ml of wastewater sample; optimal Fe^{2+} 5% dose = 10ml/250ml wastewater sample; optimal hydrolic retention time = 2.5h. The effect of color, COD removal reached 97.2% and 95.8% respectively. Based on the optimized performance indicators, the author designed the Fenton advanced oxidation model. And it was applied to operate at optimal conditions that can be controlled automatically or manually. The model is designed to get the highest wastewater treatment efficiency in terms of technology and

PDF (Tiếng Việt)

1

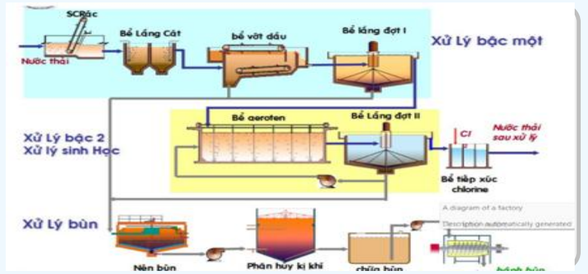
Treatment of printing ink wastewater from a workshop at IUH

Article link

https://jst.iuh.edu.vn/index.php/jst-iuh/article/view/846

Activity description *(under 200 words)*

IUH places a strong emphasis on pollution control and environmental protection by researching and implementing wastewater treatment systems for effluent generated from the university's practical and production-related activities. Specifically, the university has developed and applied the Fenton-based Advanced Oxidation Process (AOP) to treat printing ink wastewater generated at the IUH printing workshop, utilizing a system with a capacity of 10 liters per hour. This method effectively removes recalcitrant organic compounds and specific pollutants found in printing ink wastewater. The treatment process ensures that the effluent meets all current environmental standards and regulations prior to discharge. Through these efforts, IUH reaffirms its commitment to environmental compliance, minimizes negative impacts on local water resources, and contributes to the Sustainable Development Goal 6 (SDG 6).



2

Course: Wastewater Treatment Engineering

Article link

14.2.1 - Google Drive

Activity description *(under 200 words)*

The Wastewater Treatment Engineering course is a specialized subject in the Environmental Engineering Technology program, helping students connect engineering techniques with the protection of freshwater ecosystems.The course provides students with knowledge of wastewater treatment principles and proposed treatment technologies, as well as skills in pollution control processes. Through the course, students apply their specialized knowledge to assess pollution levels, minimize wastewater discharge, raise awareness of water resource conservation, and promote sustainable development solutions within the community.

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.2 Preventing water system pollution

Ngăn ngừa ô nhiễm hệ thống nước.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Assessing 5S standards; Occupational health and safety and incident prevention	Issue and implement the "Procedure for Preventing Water Source Pollution and Responding to Chemical Spill Incidents in IUH Laboratories and Practical Workshops".	Chemical incident response procedure; Periodic inspection report on grease traps in canteen kitchens and liquid chemical collection systems in laboratories	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM), Specialised Faculties/Institutes	Q1 2025
Thrust 4: Attracting, Developing and Retaining Human Resources	Occupational safety and environmental protection training for staff and lecturers	Organise periodic drills of response plans for chemical leaks, oil spills and water source protection for laboratory technicians and operating staff.	Plans and records of environmental incident prevention drills; List of staff attending campus chemical safety training	Office of Facilities Administration, Specialised Faculties/Institutes	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.2 Preventing water system pollution

Ngăn ngừa ô nhiễm hệ thống nước.

ACTIVITY EVIDENCE


Contract with environmental company 2022 -2027

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

HỢP ĐỒNG NGUYÊN TẮC PRINCIPLE CONTRACT

Số: HD.TPHCM/VAE

V/v: Xử lý chất thải nguy hại Hazardous waste treatment

- Căn cứ Bộ Luật Dân sự số 91/2015/QH13 của Quốc hội nước Cộng hòa xã hội chủ nghĩa Việt Nam ban hành ngày 24/11/2015;
- Căn cứ Luật Thương mại số 36/2005/QH11 của Quốc hội nước Cộng hòa xã hội chủ nghĩa Việt Nam ban hành ngày 27/06/2005;
- Căn cứ Luật bảo vệ môi trường số 55/2014/QH13 của Quốc hội nước Cộng hòa xã hội chủ nghĩa Việt Nam ban hành ngày 23 tháng 6 năm 2014;
- Căn cứ Thông tư số 36/2015/TT – BTNMT của Bộ Tài Nguyên và Môi trường ký ngày 30/06/2015 quy định về Quản lý chất thải nguy hại;
- Căn cứ nhu cầu của hai Bên.

Hôm nay, ngày 1 tháng 1 năm 2022 đại diện hai Bên gồm:

Article Title 1

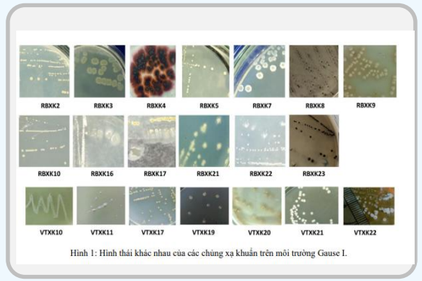
Report on the Implementation Results of Measures and Procedures for Preventing Water System Pollution in 2025

Article link

MC 6.3.2.docx - Google Docs

Activity description *(under 200 words)*

The 2025 Report on the Implementation Results of Measures and Procedures for Preventing Water System Pollution was developed by Industrial University of Ho Chi Minh City (IUH) to demonstrate strict compliance and full fulfillment of Criterion 6.3.2: Preventing water system pollution under SDG 06 (Clean Water and Sanitation). The document clearly outlines a thorough water pollution control process directly at source points, focusing on laboratories and practice workshops. Furthermore, the university maintains the Principal Contract for Hazardous Waste Treatment No. HD.TPHCM/VAE signed with Viet Uc Environment Joint Stock Company (valid 2022–2027) for regular professional collection, transport, and treatment of chemical wastewater. The system of hazardous waste handover records, safety inspection logs, and periodic monitoring for 2025 provides full, transparent evidence, achieving 100% compliance with THE Impact Rankings evaluation standards.



Hình 1: Hình thái khác nhau của các chủng xạ khuẩn trên môi trường Gause I.

Article Title 2

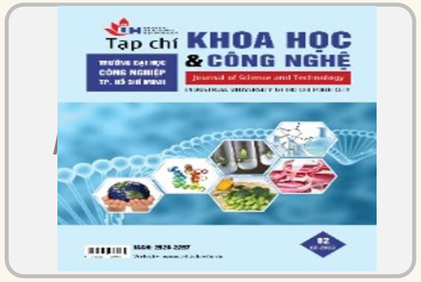
Potential Applications of Actinomycetes in the Treatment of Starch-Rich Wastewater

Article link

https://jst.iuh.edu.vn/index.php/jst-iuh/article/download/1780/473?utm

Activity description *(under 200 words)*

Actinomycetes are a group of bacteria capable of synthesizing various compounds with biological activity and possessing the ability to degrade various organic compounds. In this study, 20 strains of actinomycetes were isolated and 10 strains were identified as having the ability to degrade various types of starch. Through biochemical identification, two strains, VTXK10 and VTXK11, were identified as Amycolatopsis sp., while the remaining strains, RBXK3, were identified as belonging to the genus Streptomyces.Among them, strain RBXK3 demonstrated the highest starch degradation capacity, reaching 61.6–65.1%, while strain VTXK11 achieved 47.5–83.8% and reduced the starch content in wastewater by 31.1–38.4%. In addition, the pH of the wastewater samples was relatively stable during the treatment process. The results indicate that the growth of green algae during treatment suggests that wastewater contains sufficient nutrients to support the development of algae and other aquatic organisms. This study demonstrates the potential application of actinomycetes in treating starch-rich wastewater using a biological approach, contributing to environmental protection and sustainable development.



Article Title 3

Printing ink wastewater treatment from printing plant of Industrial University of Ho Chi Minh City by fenton's advanced oxidatio

Article link

https://jst.iuh.edu.vn/index.php/jst-iuh/article/view/846

Activity description *(under 200 words)*

The main purpose of this study was to determine optimal operating values such as pH, catalyst dosage, reaction time (or Hydraulic Retention Time-HRT) of advanced oxidation process to efficiency of oxidation on the contaminant from printing ink wastewater. Basic experiments were conducted with printing ink wastewater from Printing plant. The corresponding results show that: optimal operating pH = 3; optimal concentration of H2O2 30% = 2.5ml/250ml of wastewater sample; optimal Fe2+ 5% dose = 10ml/250ml wastewater sample; optimal hydrolic retention time = 2.5h. The effect of color, COD removal reached 97.2% and 95.8% respectively.

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.3 Free drinking water provided

Cung cấp nước uống miễn phí.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Increasing amenities and services for students; Average facilities maintenance cost per learner	Maintain and install additional free RO purified drinking-water dispensers in the lobbies of all teaching buildings, the library, the sports hall and the dormitory areas.	Map and list of locations of free drinking-water dispensers across the University; Photographs of students and visitors using the drinking-water stations	Office of Facilities Administration, Office of Dormitory Management	Q1–Q4 2025
Thrust 3: Modern Facilities & Student Experience	Ensuring health and safety on campus; Benchmarking health service quality	Periodically inspect and replace filter cartridges and collect samples to test the quality of drinking water at the taps, meeting the technical regulation for bottled drinking water for direct consumption, QCVN 6-1:2010/BYT.	Maintenance and filter-replacement logs; Quarterly microbiological and physicochemical test certificates for drinking water meeting the standard, issued by the Pasteur Institute/Testing Centre	Office of Facilities Administration	Quarterly throughout 2025
Thrust 2 & Thrust 3: Community Engagement & Sustainable Consumption	Building a green campus; Reducing single-use plastic waste	Launch the “Bring Your Own Bottle – Free Refills at IUH” campaign to reduce PET plastic bottle waste on campus.	Media articles and visual posters placed next to water stations; Report estimating the volume of plastic bottles reduced during the year	Information and Communications Centre	Q1–Q3 2025

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.3 Free drinking water provided

Cung cấp nước uống miễn phí.

ACTIVITY EVIDENCE



1

Operation and Maintenance of the Free Purified Drinking Water Supply System for Learners and Faculty/Staff at IUH Training Facilities

Article link

https://docs.google.com/document/d/1GdWIYJiMf8t63V6wgI5NLTO4IIH8cf_N/edit?usp=sharing&ouid=100450704543042878518&rtpof=true&sd=true

Activity description *(under 200 words)*

In 2025, Industrial University of Ho Chi Minh City (IUH) maintained and expanded its free industrial drinking water purifier system across all lecture halls, libraries, self-study areas, and dormitories. Purified drinking water stations are placed in convenient locations to serve the daily needs of all students, lecturers, staff, and campus visitors. All drinking water sources undergo periodic quality inspection according to the drinking water safety and hygiene standards of the Ministry of Health, complete with hygiene logs, maintenance, and regular filter cartridge replacement by a specialized team. The free drinking water supply activity not only ensures safe and equal learning conditions but is also closely linked to the movement encouraging learners to bring personal water bottles, contributing to a significant reduction in single-use plastic bottles on campus.



2

IUH Installs Free Drinking Water Purifier System for Students, Aiming for a Green Campus

Article link

https://www.facebook.com/sviuh/posts/h%E1%BB%87-th%E1%BB%91ng-m%C3%A1y-l%E1%BB%8Dc-n%C6%B0%E1%BB%9Bc-ph%E1%BB%A5c-v%E1%BB%A5-mi%E1%BB%85n-ph%C3%AD-cho-sinh-vi%C3%AAn-%C4%91%C3%A3-%C4%91%C6%B0%E1%BB%A3c-l%E1%BA%AFp-%C4%91%E1%BA%B7t-v%C3%A0-chu%E1%BA%A9n-b%E1%BB%8B/3316720691753247/

Activity description *(under 200 words)*

Industrial University of Ho Chi Minh City (IUH) has deployed and put into operation an industrial water purifier system providing 100% free drinking water for students, lecturers, and staff right on campus. These water supply stations are placed in convenient locations, helping the entire IUH community easily access safe drinking water sources. To ensure user health, the university strictly performs periodic water quality inspections, equipment maintenance, and regular filter cartridge replacements. Simultaneously, the activity is accompanied by active communication campaigns encouraging students to proactively bring personal water bottles. Through this, IUH not only ensures campus welfare but also makes a significant contribution to cutting down single-use plastic bottles and plastic waste into the environment, promoting sustainable development goals.

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.4 Water-conscious building standards

Áp dụng tiêu chuẩn công trình tiết kiệm nước.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building modern educational facilities; Upgrading existing infrastructure (actual vs planned)	Issue the “Technical Standards for the Design and Renovation of Water-Saving Buildings at IUH”, mandating the integration of low-flow sanitary fixtures and smart flush valves.	Rector’s document stipulating technical standards for construction works; Technical design dossiers of teaching-building renovation projects complying with water-saving standards	Office of Planning and Investment, Office of Facilities Administration	Q1 2025
Thrust 3: Modern Facilities & Student Experience	Improving the effectiveness of facilities maintenance; Assessing energy and water efficiency	Accept and put into use the restroom renovation items integrating infrared sensor systems that automatically shut off water, and waterless male urinals, in Buildings E, F and V.	Project completion acceptance record; Set of photographs of the actual water-saving equipment in the newly upgraded facilities	Office of Planning and Investment, Office of Facilities Administration	Q2 & Q3 2025

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.4 Water-conscious building standards

Áp dụng tiêu chuẩn công trình tiết kiệm nước.

ACTIVITY EVIDENCE



1

Assessment Report on the Current Status of Facilities Applying Water-Conscious Building Standards

Article link

https://docs.google.com/document/d/1-1dQ70dExrG6Kn3XN-CNZ8_bjqbgY6lJ/edit?usp=sharing&ouid=100450704543042878518&rtpof=true&sd=true

Activity description *(under 200 words)*

In 2025, Industrial University of Ho Chi Minh City (IUH) systematically applied technical standards and water-saving building solutions in the design, renovation, and operation of its infrastructure across all training facilities. The university prioritized converting and upgrading 100% of sanitary equipment to low-flow automatic sensor faucets, dual-flush water-saving toilets, and water pressure control valve systems in lecture halls, laboratories, and dormitories. Furthermore, the Department of Facility Management maintained regular inspection and technical infrastructure audits, performing periodic water consumption measurements (achieving an optimal level of 2.27 m^3/person/year). Automatic mechanical float systems and warning devices were integrated into underground tanks and rooftop reservoirs to promptly detect overflow incidents or pipe leaks. These water-conscious building standards not only enhance resource efficiency but also demonstrate IUH's commitment to reducing operational costs and implementing sustainable development in line with SDG 6 standards.

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2

IUH Installs Free Drinking Water Purifier System for Students, Aiming for a Green Campus

Article link

https://www.facebook.com/sviuh/posts/h%E1%BB%87-th%E1%BB%91ng-m%C3%A1y-l%E1%BB%8Dc-n%C6%B0%E1%BB%9Bc-ph%E1%BB%A5c-v%E1%BB%A5-mi%E1%BB%85n-ph%C3%AD-cho-sinh-vi%C3%AAn-%C4%91%C3%A3-%C4%91%C6%B0%E1%BB%A3c-l%E1%BA%AFp-%C4%91%E1%BA%B7t-v%C3%A0-chu%E1%BA%A9n-b%E1%BB%8B/3316720691753247/

Activity description *(under 200 words)*

Industrial University of Ho Chi Minh City (IUH) has deployed and put into operation an industrial water purifier system providing 100% free drinking water for students, lecturers, and staff right on campus. These water supply stations are placed in convenient locations, helping the entire IUH community easily access safe drinking water sources. To ensure user health, the university strictly performs periodic water quality inspections, equipment maintenance, and regular filter cartridge replacements. Simultaneously, the activity is accompanied by active communication campaigns encouraging students to proactively bring personal water bottles. Through this, IUH not only ensures campus welfare but also makes a significant contribution to cutting down single-use plastic bottles and plastic waste in the environment, promoting sustainable development goals.

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.5

Water-conscious planting

Trồng cây và quy hoạch cảnh quan theo hướng tiết kiệm nước.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Increasing the green index and tree canopy coverage (Increase green index and canopy coverage)	Review and restructure the list of campus landscape plants, prioritising the planting of native urban trees that are highly drought-tolerant, have broad canopies that provide shade, and require little irrigation water.	Campus green-space planning scheme; List of drought-tolerant native species newly planted in 2025	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q3 2025
Thrust 3: Modern Facilities & Student Experience	Reducing electricity and water consumption in the operation of the University	Install automatic drip irrigation and mist spray systems timed for early morning/cool late afternoon, and use organic mulching (mulching) to retain moisture around tree bases.	Acceptance record for the automatic drip irrigation system; Quantitative report on the volume of water saved through the new landscape irrigation technology	Office of Organisation and Administration, Office of Facilities Administration	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.3 – Water usage and care

SDG 06 CLEAN WATER AND SANITATION

6.3.5 Water-conscious planting

Trồng cây và quy hoạch cảnh quan theo hướng tiết kiệm nước.

ACTIVITY EVIDENCE



1

Planting and Caring for Native Tropical Almond Trees to Restore Vegetation Cover at Nghinh Phong Cape

Article link

Bài viết của Viện KHCN&QLMT (09/06/2025): facebook.com/vienmoitruong
Video hoạt động: https://youtu.be/OgtZMCDqejo

Activity Description (Under 200 Words)

On June 9, 2025, the Institute of Environmental Science, Technology and Management (ISE) – IUH organized an activity to plant new trees and care for existing greenery at Nghinh Phong Cape (Vung Tau City), a natural coastal headland with considerable areas of bare land along its hillsides.The species planted was the tropical almond tree (Terminalia catappa), a native species in Vietnam's coastal regions that is highly tolerant of wind and salinity. Caring for previously planted trees and planting additional ones aim to green bare land, maintain and expand natural vegetation cover, and enhance the diversity of the area's terrestrial ecosystem. The newly planted trees continued to be managed and maintained by the Institute in April 2026.



2

Food Innovation and Development 2025 (FID 2025)

Article link

https://iuh.edu.vn/vi/tin-tuc/bien-vay-ca-thanh-gia-tri-xanh-sinh-vien-iuh-chinh-phuc-giai-nhi-fid-2025-2109.html

Activity Description (Under 200 Words)

Food Innovation and Development 2025 (FID 2025) is a national-scale academic and innovation competition aimed at developing future food solutions associated with sustainable development in the context of a green economy.The competition is organized by HUIT in collaboration with the Vietnam Association of Food Science and Technology (VAFoST), the National Startup Support Center (NSSC), the Global Innovation & Technology Platform (GITP), and BambuUP, establishing a close-knit network connecting universities, scientists, businesses, and investors.

Industrial University of Ho Chi Minh City

NHÓM 6.4 – Water reuse

SDG 06 CLEAN WATER AND SANITATION

6.4.1 Water reuse policy

Chính sách tái sử dụng nước.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Building a green campus; Sustainable development of the campus environment	Review, update and issue the Rector's Decision on the "Policy on the Management, Collection and Reuse of Water Resources at IUH for the 2021–2025 Period".	Official policy document issued/reviewed by the Rector during the 2021–2025 period; Full text made publicly available on the University's website	Office of Organisation and Administration	Q1 2025
Thrust 3: Modern Facilities & Student Experience	Solutions for collecting and utilising alternative water resources	Stipulate the principle that 100% of treated effluent meeting Class A standards, and rainwater collected from the roofs of large teaching buildings, shall be prioritised for irrigation and yard washing.	Plan for implementing the reclaimed-water pipeline network; Technical guidelines for operating the internal water reuse system	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q3 2025

Industrial University of Ho Chi Minh City

NHÓM 6.4 – Water reuse

SDG 06 CLEAN WATER AND SANITATION

6.4.1 Water reuse policy

Chính sách tái sử dụng nước.

ACTIVITY EVIDENCE



1

IUH Installs Free Drinking Water Purifier System for Students, Aiming for a Green Campus

Article link

(19) 👉Hệ thống máy lọc nước... - IUH - Trường Đại học Công nghiệp TP.HCM | Facebook

Mô tả hoạt động *(dưới 200 từ)*

Industrial University of Ho Chi Minh City (IUH) has deployed and put into operation an industrial water purifier system providing 100% free drinking water for students, lecturers, and staff right on campus. These water supply stations are placed in convenient locations, helping the entire IUH community easily access safe drinking water sources. To ensure user health, the university strictly performs periodic water quality inspections, equipment maintenance, and regular filter cartridge replacements. Simultaneously, the activity is accompanied by active communication campaigns encouraging students to proactively bring personal water bottles. Through this, IUH not only ensures campus welfare but also makes a significant contribution to cutting down single-use plastic bottles and plastic waste into the environment, promoting sustainable development goals.



2

Spreading the spirit of "Green Living & A Day for Doing Good" through an initiative to recycle plastic bottles into plant pots

Article link

minhhttps://fet.iuh.edu.vn/news.html@detail@279@951@Lan-toa-tinh-than-Song-xanh-&-Ngay-lam-viec-tot-qua-hoat-dong-tai-che-chai-nhua-thanh-chau-cay chứng….

Mô tả hoạt động *(dưới 200 từ)*

In support of the "Anti-Plastic Waste" movement and the promotion of a sustainable lifestyle within the student community, the Youth Union and the Student Association of the Faculty of Electronic Technology recently organized a successful thematic session titled "Green Living & A Day for Good Deeds."

Industrial University of Ho Chi Minh City

NHÓM 6.4 – Water reuse

SDG 06 CLEAN WATER AND SANITATION

6.4.2 Water reuse measurement

Đo lường lượng nước tái sử dụng.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Reducing mains water consumption; Controlling facilities operation	Install outlet flow meters at the rainwater storage tanks and at the post-treatment settling tanks of the wastewater treatment plant that supply water for irrigating plants.	Weekly periodic logs of reused-water meter readings; Periodic verification records for water flow meters	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q4 2025
Thrust 1: Pioneering Education and Research	Standardising University-wide data for THE ranking verification	Prepare a quantitative statistical report on the total volume of reused water (m^3) in 2024, and calculate the percentage of reused water in total water consumption.	2024 reused-water statistics report approved by the Board of Rectors for uploading evidence to the THE data portal	Office of Testing and Quality Assurance, Institute of Environmental Science, Engineering and Management (IESEM), Office of Facilities Administration	Q2–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.4 – Water reuse

SDG 06 CLEAN WATER AND SANITATION

6.4.2 Water reuse measurement

Đo lường lượng nước tái sử dụng.

ACTIVITY EVIDENCE



QUY TRÌNH HƯỚNG DẪN SINH VIÊN MƯỢN PHÒNG THÍ NGHIỆM VÀ TRANG THIẾT BỊ THỰC HIỆN KHOÁ LUẬN TỐT NGHIỆP

1. Giải quyết thủ tục mượn phòng thí nghiệm, thiết bị, dụng cụ

Bước 1: Sinh viên vào trang web Viện công nghệ Sinh học và Thực phẩm downloads bộ mẫu đơn dành cho sinh viên thực hiện khoá luận gồm:

Đơn mượn phòng bố trí thí nghiệm, mượn thiết bị, mượn dụng cụ (cho các nhóm hướng dẫn bởi cùng một giảng viên)

– Khi được giao đề tài, SV gặp GV hướng dẫn liệt kê những dụng cụ và thiết bị cần thiết sử dụng (đủ sử dụng các nhóm được hướng dẫn bởi cùng một giảng viên).

– Sinh viên điền đầy đủ các thông tin vào bộ mẫu đơn, xin xác nhận của giảng viên quản lý trực tiếp PTN ở các bộ môn. Bộ mẫu đơn hoàn chỉnh được nộp cho nhân viên phụ trách PTN tại phòng điều phối dụng cụ và thiết bị F4.02.

1

Practical Laboratory Regulations: Preventing Chemical Discharge into the Drainage System

Article link

https://ibf.iuh.edu.vn/nguyen-thi-hong-van/

Activity description *(under 200 words)*

The Laboratory Regulations and Waste Management Procedures, which are mandatory for the Faculty of Chemical Engineering and all laboratories across the University, strictly prohibit the direct discharge of chemical solutions, solvents or hazardous waste into the drainage system. Microbiological samples must be sterilised using an autoclave before disposal.

In the event of a chemical spill or microbiological contamination, the response procedure must be activated immediately. This involves using absorbent materials, disinfecting the affected area and collecting the waste in hazardous waste containers. After each practical session, lecturers inspect the chemicals and equipment and record their handover in the logbook to control the risk of leakage into the aquatic environment.



GIỚI THIỆU MÔN HỌC

- Tên môn học : Thực Hành Hóa sinh học
- Thời lượng : 30 tiết TH
- Giảng viên : ThS. Phạm Hồng Hiếu
- Trang web : http://ibf.iuh.edu.vn/pham-hong-hieu/
- Email : phamhonghieu@iuh.edu.vn hieuphamhong@gmail.com

2

Laboratory Wastewater Classification and Collection Procedure

Article link

https://ibf.iuh.edu.vn/wp-content/uploads/2019/08/BaigiangTHHoasinhhoc_2019.pdf

Activity description *(under 200 words)*

The Industrial University of Ho Chi Minh City (IUH) applies a standardised waste management procedure across the laboratories and practical training facilities of the Faculty of Chemical Engineering and the Institute of Environmental Science, Engineering and Management (IESEM).

All waste solutions, used solvents, acids, alkalis, heavy metal salts and wastewater containing hazardous substances (hazardous waste codes 020106, 020202, 020302, 170803 and 191001) are collected, classified according to their waste codes and stored in specialised, sealed containers bearing identification labels. Hazardous wastewater must not be discharged directly into the environment but must instead be transferred to licensed treatment providers for treatment in compliance with applicable standards, thereby protecting receiving water bodies, ecosystems and human health.

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.1 Water management educational opportunities

Cung cấp cơ hội giáo dục về quản lý tài nguyên nước cho cộng đồng địa phương.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 1 & Thrust 2: Pioneering Education & Community Engagement	Developing free consultancy activities and professional services (Free consultancy)	IESEM leads the organisation of the training course “Rainwater Harvesting Techniques and Household-Scale Domestic Water Treatment Solutions for Climate Change Adaptation” for local residents (free of charge).	Training plan; Training lecture materials; List of participating community learners; Media bulletin published on the University’s website	Information and Communications Centre, Office of Research Management and International Cooperation, Institute of Environmental Science, Engineering and Management (IESEM)	Q2 & Q3 2025
Thrust 2: Promoting Community Engagement	Expanding community engagement activities towards active citizenship	Coordinate with the Farmers’ Association and the People’s Committees of rural communes to organise thematic talks on saving water in urban agricultural cultivation.	Seminar programme; Invitations to farmer delegates; Thank-you letters from the host local authorities	Institute of Environmental Science, Engineering and Management (IESEM), Youth Union	Q3–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.1 Water management educational opportunities

Cung cấp cơ hội giáo dục về quản lý tài nguyên nước cho cộng đồng địa phương.

ACTIVITY EVIDENCE



Article name 1

Review Council Evaluates the Draft Manual on Water Supply Treatment Practices

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity Description *(under 200 words)*

On January 17, 2026, the Review Council evaluated the draft of the Practical Water Supply Treatment Manual, compiled by Dr. Thái Thúy Nga from the Faculty of Environmental Engineering and lecturers from the Faculty of Civil Engineering, IUH. The manual was developed for students majoring in Water Supply and Drainage Engineering, providing practical knowledge and professional skills in water treatment. The manual consists of 11 chapters covering system design, water treatment plant construction and maintenance, water treatment processes, pressure measurement, Jar Test experiments, water softening, and laboratory testing for water treatment. The content helps students become familiar with technical procedures, apply knowledge in practical settings, and evaluate experimental results. The Council provided detailed comments on the content and presentation and recommended further revisions before publication. This activity demonstrates IUH's commitment to improving teaching materials and developing high-quality human resources in water treatment.



Article name 2

The International Project "Connecting Knowledge – Building an Asian Youth Community for Sustainable Development between People and the Environment" at IUH

Article link

https://www.facebook.com/share/p/1C7Zp9hMgf/

Activity Description *(under 200 words)*

On September 11, 2026, an academic thematic session under the Eurasia Project, entitled "Connecting Knowledge – Building an Asian Youth Community for Sustainable Development between People and the Environment," was held at Hall E4, Industrial University of Ho Chi Minh City (IUH). Under the theme "Nature-based Solutions – A Sustainable Approach to Urban Water Management in Ho Chi Minh City," the programme attracted more than 200 participants, including delegates, IUH lecturers, students, and international students. The keynote speaker was Prof. Dr. Nguyễn Phước Dân from the Faculty of Civil Engineering and the CARE Center, Ho Chi Minh City University of Technology – Viet Nam National University Ho Chi Minh City. The programme promoted awareness of sustainable urban water management through nature-based solutions while encouraging academic exchange and international collaboration.



Article name 3

IUH Youth Union collaborates with Go Vap District to participate in the Green Sunday program.

Article link

https://youth.iuh.edu.vn/tuoi-tre-iuh-phoi-hop-cung-quan-go-vap-tham-gia-chuong-trinh-chu-nhat-xanh/

Cần minh chứng trực tiếp

Activity Description *(under 200 words)*

IUH maintains close cooperative relationships with local government authorities, including the People's Committee and relevant departments of Go Vap District. The University regularly exchanges official correspondence, participates in meetings and workshops, and signs cooperation agreements to coordinate the implementation of environmental action projects, address urban flooding hotspots and urban waste issues, and contribute to the realization of the local climate action plan.

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.3

Off-campus water conservation support

Hỗ trợ hoạt động bảo tồn tài nguyên nước bên ngoài khuôn viên Trường.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 2: Promoting Community Engagement	Number of community service activities/campaigns; Number of beneficiaries	The Youth Union and the IUH Student Association, in coordination with the Go Vap District Youth Union, implement a volunteer campaign to dredge and collect waste to clear the flow of canals near the University.	Coordination plan for cleaning canals; List of participating student volunteers; Record confirming the handover of the youth project; Media feature articles	Office of Student Affairs and Communications, Youth Union	March & July 2025
Thrust 1: Pioneering Education and Research	Strengthening applied research projects for technology transfer to localities	Transfer a smart waste-trap filter model and a microbial aeration system to improve surface water quality in ecological ponds and lakes at a suburban conservation area.	Technology transfer acceptance dossier; Handover record for aeration equipment; Assessment of pond and lake water quality before and after the intervention	Office of Research Management and International Cooperation, Institute of Environmental Science, Engineering and Management (IESEM)	Q3–Q4 2025

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.3 Off-campus water conservation support

Hỗ trợ hoạt động bảo tồn tài nguyên nước bên ngoài khuôn viên Trường.

ACTIVITY EVIDENCE



Article tittle 1

IUH Digital Library Catalog (Document Title to Be Confirmed)

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

The IUH Digital Library introduces the research work "Evaluation of Aquaculture Water Source Quality in Quang Ngai City Area, Quang Ngai Province", published in the Journal of Forestry Science and Technology. The study focuses on water quality issues serving local aquaculture activities, falling within the scope of water resource management and protection. Assessing water quality is meaningful for identifying pollution risks, providing scientific information for environmental management activities, and guiding appropriate water resource utilization. The document is archived and introduced on the IUH Digital Library system, contributing to knowledge access and water quality research support. However, the current information does not provide evidence of IUH directly implementing water conservation activities or supporting the community in Quang Ngai.



Article tittle 2

Autonomous Water Quality Monitoring Vessel for Shrimp Farming

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

The digital library archives the outstanding graduation thesis "Assessment of Current Water Quality Status in Shrimp Farming and Proposal of Sustainable Development Solutions in Go Cong Dong District, Tien Giang Province" by author Tran Minh Duy, supervised by MSc. Ho Quoc Bao, from the Institute of Environmental Science, Technology and Management (majoring in Environmental Engineering Technology). The project focuses on researching water source quality serving shrimp aquaculture activities in Go Cong Dong district, where water management holds significant importance for local fisheries production and livelihoods. The research direction closely aligns with assessing current status and proposing sustainable development solutions, contributing scientific basis for aquaculture environmental management, pollution prevention, and reasonable water resource utilization. Archiving document on the IUH Digital Library supports training, research, and knowledge access on water resource protection, fitting SDG 6 sustainable development orientations.



Article tittle 3

AIoT Water Environment Monitoring Project Wins EPICS 8 Award

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

On May 11, 2026, IUH announced the achievement of students winning Second Prize in the EPICS 8 international engineering competition with a project applying Artificial Intelligence combined with the Internet of Things (AIoT). This achievement highlights the research capacity, creativity, and development of technological solutions by IUH students in applied engineering. The project addresses technology application in water environmental monitoring, an area of significant importance for tracking water quality, detecting environmental fluctuations, and supporting water resource management activities. Developing monitoring solutions contributes to expanding the application capacity of digital technology in environmental observation, monitoring, and protection. The competition result demonstrates student engagement in research and innovation linked to sustainable development issues; this serves as supplementary evidence for SDG 6 regarding water monitoring technology capacity, though it has not confirmed community-deployed application of the solution.

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.4 Sustainable water extraction on campus

Áp dụng công nghệ khai thác nước bền vững trong khuôn viên Trường.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Complying with environmental legislation; Safe operation of technical systems	Review and manage the backup borehole system in accordance with the groundwater extraction permit issued by the Department of Natural Resources and Environment; install flow meters to ensure that extraction does not exceed the permitted threshold.	Valid groundwater extraction permit; Periodic groundwater extraction flow monitoring logbook; Periodic extraction reports submitted to the state management authority	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q4 2025
Thrust 1 & Thrust 3: Applied Research & Modern Facilities	Applying advanced technologies to protect groundwater resources	Install a quartz sand filtration system combined with ozone disinfection and inverter pumps that automatically adjust flow rates, minimising depletion of the local aquifer.	Design drawings of the extracted-water treatment system; Report evaluating energy-saving effectiveness and control of ground subsidence	Office of Facilities Administration, Institute of Environmental Science, Engineering and Management (IESEM)	Q2 & Q3 2025

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.4 Sustainable water extraction on campus

Áp dụng công nghệ khai thác nước bền vững trong khuôn viên Trường.

ACTIVITY EVIDENCE



1

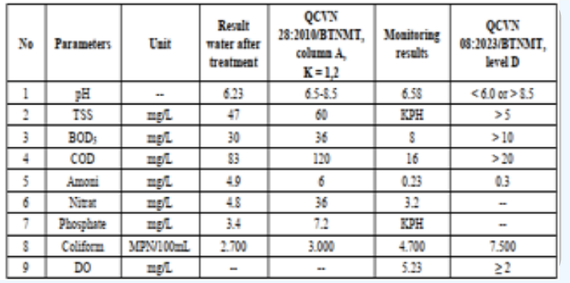
IUH Facility Management Department – Water Supply and Drainage Management Functions

Article link

https://iuh.edu.vn/vi/phong-quan-tri.html

Activity description *(under 200 words)*

On February 20, 2025, IUH published information about the Facility Management Department, the unit in charge of managing facilities and technical systems serving University operations. In the field of water resources, the Facility Management Department carries out tasks including managing, operating, and maintaining the water supply and drainage system, monitoring water meters, compiling statistics on water consumption, and coordinating the resolution of arising technical issues. Assigning responsibilities to a specialized unit creates an organizational foundation for water management within the IUH campus, supporting control over water supply activities, tracking consumption levels, and maintaining system operational capacity. Information on the functions and duties of the Facility Management Department also identifies the focal contact for providing technical records, water usage data, and management documents for sustainable development assessment.



No	Parameters	Unit	Result water after treatment	QCVN 28:2010/BTNMT, column A, K = 1.2	Monitoring results	QCVN 08:2023/BTNMT, level D
1	pH	--	6.23	6.5-8.5	6.58	< 6.0 or > 8.5
2	TSS	mg/L	47	60	KPH	> 5
3	BOD_5	mg/L	30	36	8	> 10
4	COD	mg/L	83	120	16	> 20
5	Amoni	mg/L	4.9	6	0.23	0.3
6	Nitrat	mg/L	4.8	36	3.2	--
7	Phosphate	mg/L	3.4	7.2	KPH	--
8	Coliform	MPN/100mL	2.700	3.000	4.700	7.500
9	DO	mg/L	--	--	5.23	≥ 2

2

Suitability of the hospital wastewater treatment system in Binh Duong province to the environmental carrying capacity

Article link

10.1002/clen.202300042

Activity description *(under 200 words)*

River water pollution with potentially toxic elements can be quantified via hydrological studies, while its potential impacts on the ecosystem and human health can be assessed via the indices of ecological risk (RI) and human health hazard (HI). This study aims to assess potential ecological and human health risks of trace-element pollution of the

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.5 Cooperation on water security

Hợp tác với chính quyền các cấp nhằm bảo đảm an ninh nguồn nước.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 1: Pioneering Education and Research	Policy consultancy; Participation in social review and expert councils	IESEM experts participate in the Drafting Committee/Advisory Appraisal Council for the Ho Chi Minh City People's Committee's Project on ensuring safe water supply and flood control management (Local & Regional levels).	Decision assigning experts; Comments on the surface water security plan; Policy recommendation report on protecting the Saigon–Dong Nai River Basin	Office of Research Management and International Cooperation, Institute of Environmental Science, Engineering and Management (IESEM)	Q1–Q4 2025
Thrust 1 & Thrust 2: Strategic Research & Government Engagement	National cooperation in water resource research and protection	Cooperate with the Department of Water Resources Management (Ministry of Natural Resources and Environment) and the Vietnam Clean Water and Environment Association to carry out saline intrusion monitoring and forecasting tasks in the Mekong Delta (National level).	National-level cooperation agreement (MOU); Water security monitoring results report submitted to the Ministry of Natural Resources and Environment	Office of Research Management and International Cooperation, Institute of Environmental Science, Engineering and Management (IESEM)	Q2–Q4 2025
Thrust 1: Pioneering Education and Research	International cooperation on water security science and technology	Co-organise an international scientific conference on Water Treatment Technology and Water Security (in cooperation with international organisations JICA, KOICA and the ASEAN Water Security Network) (Global level).	International conference proceedings; Joint statement on water security in the lower Mekong region; Multilingual media bulletin on the website	Office of Research Management and International Cooperation, Institute of Environmental Science, Engineering and Management (IESEM)	October 2025

Industrial University of Ho Chi Minh City

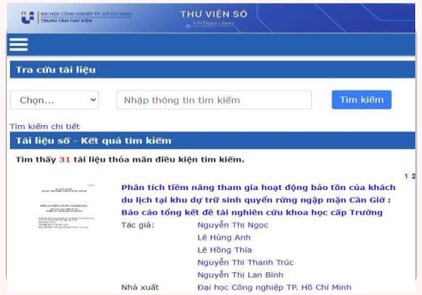
NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.5 Cooperation on water security

Hợp tác với chính quyền các cấp nhằm bảo đảm an ninh nguồn nước.

ACTIVITY EVIDENCE



Article tittle 1

IUH Digital Library Catalog (Document Title to Be Confirmed)

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

The Digital Library of Industrial University of Ho Chi Minh City (IUH) introduces the final report of the university-level research project "Analysis of Tourism Participation Potential in Conservation Activities at Can Gio Mangrove Biosphere Reserve", conducted by the author team: Nguyen Thi Ngoc, Le Hung Anh, Le Hong Thia, Nguyen Thi Thanh Truc, and Nguyen Thi Lan Binh. The project focuses on analyzing the ability of tourists to participate in conservation activities in the Can Gio Mangrove Biosphere Reserve, an area of significant ecological value for Ho Chi Minh City. The research direction contributes to expanding scientific foundations for considering the role of tourists in ecosystem protection and promoting responsible tourism.



Đội sinh viên và cựu sinh viên IUH cùng giảng viên hướng dẫn TS. Lê Ngọc Trần đã xuất sắc giành giải Á quân tại chương trình.

Article Title: 2

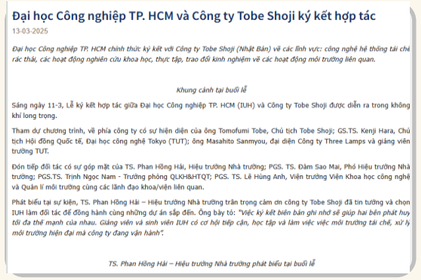
IUH Students Win Runner-Up at Water Tech Innovation Lounge Vietwater Program

Article link

MỞ BÀI VIẾT GỐC ↗

Activity description *(under 200 words)*

Activity Description (under 200 words): From October 22 to 24, 2025, a group of IUH students along with FPT Polytechnic participated in the Water Tech Innovation Lounge within the framework of Vietwater 2025. The group introduced an early warning system for water quality in marine cage aquaculture, applying sensors and connectivity technology to monitor the aquatic environment. The project achieved Runner-Up. The program was co-organized by The Water Agency and the Embassy of the Netherlands, with representatives from Dutch water management agencies attending. This serves as evidence of applied research and international professional connections in the water sector; however, it has not confirmed direct cooperation agreements with government agencies regarding water security.


Đại học Công nghiệp TP. HCM và Công ty Tobe Shoji ký kết hợp tác

13-03-2025

Đại học Công nghiệp TP. HCM chính thức ký kết với Công ty Tobe Shoji (Nhật Bản) về các lĩnh vực: công nghệ hệ thống tái chế rác thải, các hoạt động nghiên cứu khoa học, thực tập, trao đổi kinh nghiệm về các hoạt động môi trường liên quan.

Khung cảnh tại buổi lễ

Sáng ngày 11-3, Lễ ký kết hợp tác giữa Đại học Công nghiệp TP. HCM (IUH) và Công ty Tobe Shoji được diễn ra trong không khí long trọng.

Tham dự chương trình, về phía công ty có sự hiện diện của ông Tomofumi Tobe, Chủ tịch Tobe Shoji; GS.TS. Kenji Hara, Chủ tịch Hội đồng Quốc tế, Đại học công nghệ Tokyo (TUT); ông Masahito Sanmyou, đại diện Công ty Three Lamps và giảng viên trường TUT.

Đón tiếp đối tác có sự góp mặt của TS. Phan Hồng Hải, Hiệu trưởng Nhà trường; PGS. TS. Đàm Sao Mai, Phó Hiệu trưởng Nhà trường; PGS.TS. Trịnh Ngọc Nam - Trưởng phòng QLKH&HTQT; PGS. TS. Lê Hùng Anh, Viện trưởng Viện Khoa học công nghệ và Quản lí môi trường cùng các lãnh đạo khoa/viện liên quan.

Phát biểu tại sự kiện, TS. Phan Hồng Hải – Hiệu trưởng Nhà trường trân trọng cảm ơn công ty Tobe Shoji đã tin tưởng và chọn IUH làm đối tác để đồng hành cùng những dự án sắp đến. Ông bày tỏ: *"Việc ký kết biên bản ghi nhớ sẽ giúp hai bên phát huy tối đa thế mạnh của nhau. Giảng viên và sinh viên IUH có cơ hội tiếp cận, học tập và làm việc với môi trường tái chế, xử lý môi trường hiện đại mà công ty đang vận hành".*

TS. Phan Hồng Hải – Hiệu trưởng Nhà trường phát biểu tại buổi lễ

Article Title: 3

Industrial University of Ho Chi Minh City and Tobe Shoji Company Sign Cooperation Agreement

Article link

MỞ BÀI VIẾT GỐC ↗

Activity description *(under 200 words)*

Activity Description (under 200 words): On March 11, 2025, IUH and Tobe Shoji Company (Japan) signed a cooperation agreement on recycling technology, waste collection and treatment, scientific research, technology transfer, internships, and expert exchanges. Both sides oriented seeking environmental projects supported by the Japanese Government. The agreement contributes to advancing research and training in resource recovery and environmental management. The article was posted on March 13, 2025. This serves as evidence of cooperation with environmental enterprises.

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.6 Promoting conscious water usage on campus

Thúc đẩy ý thức sử dụng nước tiết kiệm và có trách nhiệm trong khuôn viên Trường.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 3: Modern Facilities & Student Experience	Assessing 5S standards; A civilised, green and clean campus environment	Design and affix visual messages (decals, stickers) reading “Turn Off the Tap After Use – For a Green Future” at 100% of hand-washing basins, lecture-hall restrooms and dormitories.	Acceptance report for the posting of reminder signs; Set of on-site photographs of water-saving communication messages on campus	Office of Facilities Administration, Office of Dormitory Management	Q1–Q2 2025
Thrust 2: Promoting Community Engagement	Diversifying media channels; Increasing social media engagement	Develop a series of infographics and short video clips to be shown on LCD screens in building lobbies and posted on the fanpage, providing tips on saving water in daily campus life.	Water-saving communication infographic set; Statistics on student reach and engagement on the University’s social media	Information and Communications Centre	In observance of World Water Day (22 March) and throughout 2025

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.6 Promoting conscious water usage on campus

Thúc đẩy ý thức sử dụng nước tiết kiệm và có trách nhiệm trong khuôn viên Trường.

ACTIVITY EVIDENCE



1

IUH Civic Education Programme for Students 2025

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

Civic education program for new IUH students in 2025. Water conservation advocacy content has not been confirmed yet; plans, documents, and thematic photos are required. This document is included in the review list of SDG 6 evidence of Industrial University of Ho Chi Minh City (IUH). Assessment needs to be based on actual published content, activity scope, target beneficiaries, and implementation timeline, prioritizing 2025 data. Content is presented to determine the evidentiary value of the source, without automatically assuming that having a linked article satisfies the criterion. The article must be cross-referenced with specific indicator requirements, distinguishing research results and training activities from implemented water management policies and activities in practice.



2

IUH Promotes Nature-Based Solutions for Urban Management

Article link

https://www.facebook.com/sviuh/posts/iuh-g%C3%B3p-ph%E1%BA%A7n-lan-t%E1%BB%8Fa-gi%E1%BA%A3i-ph%C3%A1p-d%E1%BB%B1a-v%C3%A0o-t%E1%BB%B1-nhi%C3%AAn-trong-qu%E1%BA%A3n-l%C3%BD-n%C6%B0%E1%BB%9Bc-%C4%91%C3%B4-th%E1%BB%8Bng%C3%A0y-11/1397856502511435/

Activity description *(under 200 words)*

On September 11, 2026, an academic thematic session under the Eurasia Project, entitled “Connecting Knowledge – Building an Asian Youth Community for Sustainable Development between People and the Environment,” was held at Hall E4, Industrial University of Ho Chi Minh City (IUH).Under the theme “Nature-based Solutions – A Sustainable Approach to Urban Water Management in Ho Chi Minh City,” the programme attracted more than 200 participants, including delegates, IUH lecturers and students, and international students. The speaker was Prof. Dr. Nguyễn Phước Dân from the Faculty of Civil Engineering and the CARE Center, Ho Chi Minh City University of Technology – Viet Nam National University Ho Chi Minh City.

Industrial University of Ho Chi Minh City

NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.7

Promoting conscious water usage in the community

Thúc đẩy ý thức sử dụng nước tiết kiệm và có trách nhiệm trong cộng đồng.

ACTION PLAN

Strategic Thrust	KPIs / Integrated PIs	Implementation Activities	Expected Outcomes	Implementing Unit	Implementation Timeline
Thrust 2: Promoting Community Engagement	Developing volunteer campaigns; Promoting environmental protection	Organise the “IUH for Clean Community Water” festival at a local park, distributing handbook leaflets that guide residents in identifying alum-contaminated water sources and ways to save water.	Festival organisation plan; Distributed handbook materials; List of participating residents; Media reports on television/in the press	Youth Union, Information and Communications Centre	March & June 2025
Thrust 2: Promoting Community Engagement	Cooperation with nearby schools and residential areas	Send student volunteers to coordinate with lower and upper secondary schools in Go Vap District to organise extracurricular sessions on the theme “Conserving Every Precious Drop of Water”.	Coordination record for organising the extracurricular sessions; Photographs of the awareness-raising sessions at the schools; Thank-you letters from the partner schools’ management boards	Youth Union, Office of Student Affairs and Communications	Q2 & Q4 2025

Industrial University of Ho Chi Minh City

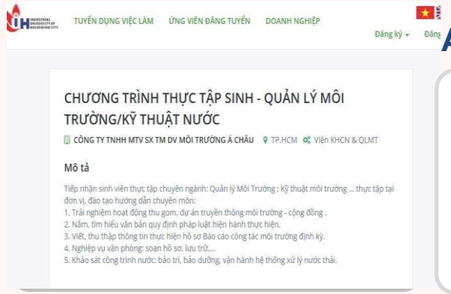
NHÓM 6.5 – Water in the community

SDG 06 CLEAN WATER AND SANITATION

6.5.7 Promoting conscious water usage in the community

Thúc đẩy ý thức sử dụng nước tiết kiệm và có trách nhiệm trong cộng đồng.

ACTIVITY EVIDENCE



Article tittle 1

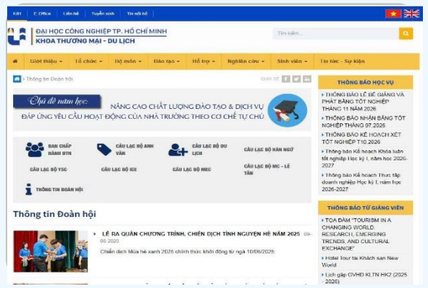
Internship Program – Environmental Management / Water Technology

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200 words)*

Through IUH's recruitment information system, A Chau Environment Co., Ltd. introduced an internship program for students majoring in Environmental Management, Environmental Engineering, and related fields. The program creates opportunities for students to access professional operations at enterprises, linking practical training with real-world needs in environmental management and protection. Internship content includes participating in collection activities and community environmental communication projects; learning about existing legal normative document systems; collecting data for periodic environmental reporting; surveying water projects and operation, maintenance, and servicing activities of wastewater treatment systems. The program contributes to supporting students in developing professional skills, enhancing understanding of environmental management and water treatment technology. This serves as evidence of practical training opportunities linked with enterprises, relating to the goal of improving water resource management capacity.



Article tittle 2

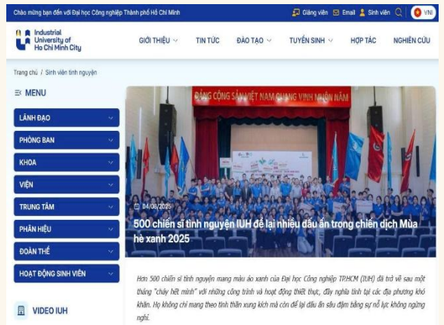
GREEN SUMMER 2025 - DONG THAP FRONT

Article link

MỞ BÀI VIẾT / TÀI LIỆU ↗

Activity description *(under 200*

On June 16, 2025, the information page of the Faculty of Commerce and Tourism Youth Union - Student Association introduced the starting moments of the Green Summer campaign at the Dong Thap front. The activity recorded the participation of student volunteer forces in the journey to serve the community outside the University campus. Organizing local teams creates conditions for students to interact with local residents' daily lives, participate in volunteer programs, and demonstrate social responsibility. This is a suitable information focal point to retrieve photo logs, activity logs, and reports of the Dong Thap team. However, the posted article has not provided specific evidence regarding students advocating water-saving usage, protecting water sources, or guiding residents in responsible water usage. Therefore, the source is categorized as supporting evidence for 6.5.7 and requires cross-referencing with actual implementation records.



Article tittle 3

GREEN SUMMER 2025 - 500+ IUH VOLUNTEERS

Activity description *(under 200*

On August 1, 2025, IUH published the results of the Green Summer 2025 campaign organized by the Youth Union and Student Association from June 1 to July 30, 2025. The campaign mobilized more than 500 student volunteers, deploying eight teams in Ho Chi Minh City and Mekong Delta localities. Activities included constructing civil works, supporting policy-beneficiary families, organizing "Blue-Shirt Tutor" classes, supporting digital transformation, and contributing to building green, clean, and beautiful landscapes. The article demonstrates the scale, locations, and results of IUH student community activities in 2025 data. Sustainable development-oriented activities were recorded; however, the source does not explicitly specify dedicated communication content on water conservation or changing resident water usage behaviors. Thus, this is supporting evidence and does not yet confirm direct satisfaction of indicator 6.5.7.

Industrial University of Ho Chi Minh City

IMPLEMENTATION RESULTS

SDG 06 CLEAN WATER AND SANITATION

OPERATIONAL EXECUTION IN VERIFIED DATA YEAR 2024–2025

Comprehensive Audit of Implemented Actions Across All 16 Evaluation Indicators of SDG 6

1. WATER CONSUMPTION PER CAPITA (6.2)

• Audited Inbound Water Volume (6.2.1):
- Total inbound treated water used across campuses: 96,427 m³ (audited via utility meters & SAWACO invoices).
- Converted full-time campus population: 29,898 people (students + faculty/staff FTE).

• Optimal Per Capita Consumption Benchmark:
- Water consumption per person achieved: 3.23 m³/person/year (96,427 m³ / 29,898 people).
- Exceptionally efficient resource density, placing IUH among top-performing green campuses in the region.

• Loss Prevention & Leak Control:
- Deployed automatic mechanical float valves and ultrasonic pressure monitors across underground and rooftop storage tanks.

2. CAMPUS WATER CARE & INFRASTRUCTURE (6.3)

• Wastewater Treatment & Pollution Prevention (6.3.1, 6.3.2):
- Centralized wastewater treatment plant operates in strict compliance with QCVN 14:2008 & 28:2010.
- Zero-chemical drain policy: Viet Uc Environment contract (2022–2027) ensures licensed hazardous chemical wastewater collection & treatment.

• Free Drinking Water & Plastic Reduction (6.3.3):
- Industrial RO drinking water purifier network deployed across 100% of buildings, providing free potable water tested to MOH standards.

• Water-Conscious Buildings & Landscaping (6.3.4, 6.3.5):
- 100% sensor faucets and dual-flush toilets; native coastal sea almond (Terminalia catappa) planting by IESEM for erosion and water conservation.

3. WATER REUSE & COMMUNITY ENGAGEMENT (6.4, 6.5)

• Water Reuse Policy & Measurement (6.4.1, 6.4.2):
- Formal policy maximizing rainwater harvesting and HVAC condensate reuse for landscaping; preparing dedicated sub-meters for reclaimed flow.

• Applied Research & Innovation Awards (6.5.1, 6.5.3):
- 'Practical Water Treatment' textbook published; AIoT Water Monitoring System won EPICS 8 2nd Place; shrimp farming water quality models in Mekong Delta.

• Global Alliances & Civic Campaigns (6.5.5 - 6.5.7):
- Runner-Up at Vietwater 2025 Lounge (with Dutch Embassy); Tobe Shoji (Japan) environmental partnership; 500+ volunteers in Green Summer canal cleanups.

Industrial University of Ho Chi Minh City

PERFORMANCE BENCHMARKING

SDG 06 CLEAN WATER AND SANITATION

Benchmarking Results Against THE Impact Ratings 2026 and StrategicEvolution for the 2027 Cycle

Indicator Category	Previous Cycle (THE 2026)	Current Audit (THE 2027)	Strategic Evolution & Outlook
Metric 6.2 Water Consumption (19.0% Weight)	Campus water volumes were billed commercially without centralized FTE per capita audit reconciliation.	Audited baseline confirmed: 96,427 m^3 across 29,898 FTE population = 3.23 m^3/person/year.	Exceptional Benchmark: Establishes one of the lowest water intensity metrics among ASEAN engineering universities.
Metric 6.3 Water Usage & Care (23.0% Weight)	Lab chemical disposal and wastewater monitoring were recorded locally without central university archiving.	Standardized 5/5 sub-indicators: Viet Uc hazardous disposal agreement, RO drinking water, water-saving fixtures.	Score Maximization: Full compliance verified by municipal environmental permits, test logs, and lab codes.
Metric 6.4 Water Reuse Policy (12.0% Weight)	Reclaimed water was utilized informally for gardens without official policy documentation or sub-meters.	Formulated institutional water reuse charter; designed dedicated volumetric metering on reclaimed lines.	Measurable Leap: Prepares verifiable volumetric evidence for closed-loop campus rainwater recycling.
Metric 6.5 Community Alliances (19.0% Weight)	Water outreach focused on student volunteerism without structured THE-aligned dossier packaging.	High-impact global portfolio: Vietwater 2025 Runner-Up, Tobe Shoji MOU, EPICS 8 award, Eurasia water forum.	Exemplary Uplift: Robust international alliances bridging government agencies, global universities, and enterprises.

Industrial University of Ho Chi Minh City

STRATEGIC PLAN FOR THE COMING YEAR

SDG 06 CLEAN WATER AND SANITATION

Four High-Impact Action Pillars to Position SDG 6 as a Premier Scoring Asset for IUH's Global Rank

1. INSTITUTIONALIZING WATER GOVERNANCE & CHARTERS

- Enact the Presidential Regulation: 'Institutional Policy on Water Conservation, Quality Control & Reuse 2026–2030'.
- Mandate strict zero-discharge chemical protocols with chain-of-custody tracking across all chemistry and bio labs.
- Incorporate a 3–5% annual water consumption reduction quota into departmental KPI performance reviews.
- Formalize institutional groundwater protection regulations declaring complete reliance on sustainable municipal supply.

2. ADVANCED WATER RECYCLING & SMART METERING

- Engineer closed-loop rainwater harvesting systems with dedicated volumetric flow meters across Buildings A, B, and E.
- Deploy IoT smart sensors and automated acoustic leak detection to prevent underground pipe loss across campuses.
- Expand RO drinking water purifier capacity by 20% to achieve 100% elimination of single-use plastic bottles on campus.
- Retrofit 100% of remaining campus faucets and toilets with ultra-low-flow certified water-saving hardware.

3. REAL-TIME DIGITAL MONITORING & 'IUH WATER HUB'

- Deploy the dedicated bilingual web portal 'IUH Clean Water & Sanitation Hub' on tqa.iuh.edu.vn.
- Package 100% of SDG 6 evidence as self-contained articles embedding water test certificates, permits, and bills.
- Establish an institutional Real-Time Smart Water Dashboard displaying daily flow rates and quality parameters.
- Automate the annual calculation of per capita water consumption (6.2.1) directly via the university ERP.

4. COMMUNITY WATER ALLIANCES & CUTTING-EDGE R&D

- Scale the 'Mekong Water Security Alliance' delivering technical solutions for saline intrusion and aquaculture wastewater.
- Deepen trilateral cooperation with The Water Agency, Dutch Embassy, and Tobe Shoji on circular resource recovery.
- Accelerate scientific research on advanced oxidation processes, membrane bioreactors, and AIoT monitoring (15+ Scopus Q1/Q2).
- Deploy student-led Green Summer initiatives delivering water purification filters to impoverished rural communities.