

2024–2025 ACADEMIC YEAR
CLEAN WATER AND SANITATION
REPORT SDG 6

ISTINYE UNIVERSITY

İSTİNYE ÜNİVERSİTESİ İSTANBUL

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ABOUT US

Our Mission

Istinye University's mission is to provide innovative and sustainable education in a student centred institution working closely with industry; to conduct research based on advanced technology; to produce new knowledge and technologies; and to contribute to society by developing solutions to local and global problems.

Our Vision

Istinye University's vision is to become one of the world's leading universities pursuing excellence in education, research, innovation and technology development, with artificial intelligence at its centre.

Our Values

- Respect for people and differences
- Commitment to professional ethics and human values
- Social and community responsibility
- Justice and merit
- Environmental awareness and sustainability
- Lifelong learning
- Collective wisdom
- Participation
- Innovation
- Entrepreneurship
- Leadership

Source: [1] Mission and Vision

INSTITUTIONAL STRUCTURE AND ENVIRONMENTAL POLICIES

International Sustainability Application and Research Centre

ISU-IRCOS supports sustainability through the University's research and education. Its areas of work include natural capital use, environmental responsibility, the circular economy and sustainable development. This structure supports the study of water resource protection with contributions from different disciplines.

Source: [2] International Sustainability Application and Research Centre

Environmental Policy

Istinye University's Environmental Policy aims to reduce environmental impacts, including those associated with water and wastewater. Conservation and efficiency are addressed alongside education, research, operations, infrastructure and social responsibility. The approach to environmental protection extends from university campuses to local and global contexts.

Source: [3] Environmental Policy

Natural Resource Use and Zero Waste Policy

The Natural Resource Use and Zero Waste Policy addresses water as a component of natural capital. Efficient resource use, the circular economy and stakeholder awareness are central themes. Encouraging education, research and practical work forms part of this approach.

Source: [4] Natural Resource Use and Zero Waste Policy

PROTECTING WATER RESOURCES

World Water Day Knowledge Sharing

In March 2025, the University shared its expertise on protecting water resources with the public as part of World Water Day. The discussion addressed water security, pollution prevention and drought risks together.

Wastewater recovery, rainwater use, efficient irrigation and responsible consumption were among the approaches discussed for protecting water resources. The information aimed to raise awareness of water conservation in everyday life and across different sectors.



Image from the University's World Water Day publication.

Source: [5] World Water Day Protecting Water Resources · [6] Istinye Post Water Resources and Conservation

HYGIENE EDUCATION AND COMMUNITY ENGAGEMENT

Handwashing Education for Preschool Children

Students on the Operating Room Services programme organised hand hygiene education for preschool children. Through games, practical activities and interactive explanations, children learned why handwashing matters, the correct steps and when to wash their hands.

Soap and water mascots supported an age-appropriate learning experience. University students took responsibility for preparing and delivering the education.



University students who contributed to the hand hygiene education.

Source: [7] Handwashing Education for Preschool Children

WATER QUALITY AND RESEARCH

AI in Wastewater Management

An Istinye University-affiliated study published in Scientific Reports on 14 July 2025 focused on predicting wastewater effluent quality using machine learning.

The research addressed chemical and biochemical oxygen demand, total suspended solids, nitrogen and phosphorus. Different feature selection techniques and predictive models were compared to contribute scientific knowledge for decision support in wastewater management.

Source: [9] AI in Wastewater Management Scientific Reports 2025

Publishing and Knowledge Sharing on Clean Water

Published by Istinye University Publications in February 2025, The Role of Higher Education Institutions on the Path to Sustainable Development examined higher education's contribution through education, research and community engagement.

The book includes a chapter entitled Clean Water, Water Resources and Responsible Water Consumption. Prepared with academic contributions from different universities, the volume shared water-related knowledge with stakeholders alongside other areas of sustainable development.

Source: [10] The Role of Higher Education Institutions on the Path to Sustainable Development Book Announcement · [11] Clean Water Water Resources and Responsible Water Consumption Chapter Publication Record

ACTIVITIES AND COOPERATION

Funding Call for Water Research

On 4 October 2024, the Technology Transfer Office shared the Water4All partnership's Water for Circular Economy call with researchers. Its research themes included industrial and urban water cycles, resource recovery, and the economic, environmental and social effects of water reuse. The announcement supported access to international funding opportunities for water research.

Source: [8] TTO Announcement of the Water4All 2024 Joint Call

Activity List

Date or Period	Activity	Source
04.10.2024	Sharing the Water4All research call	Announcement
February 2025	Publication of the book chapter on clean water	Book chapter
March 2025	World Water Day knowledge sharing	News
May 2025	Hand hygiene education for preschool children	News
14.07.2025	AI and wastewater management research	Article

PROJECTS

Student Projects

TÜBİTAK 2209 Programme 2025/1 Call

Project Title	Funding Institution
Development of Environmentally Friendly Lignin/MSN/CMC/Cyclodextrin Microspheres for Dual-mode Adsorption of Pharmaceutical Pollutants	TÜBİTAK
Synthesis and Performance Evaluation of an Environmentally Friendly Nano-adsorbent for Removing Pharmaceutical Pollutants from Water	TÜBİTAK
A Smart Plant Monitoring and Irrigation System	TÜBİTAK

Source: [12] TÜBİTAK 2209 Student Project List 2024/1 and 2025/1

SOURCES

[1] Mission and Vision

[2] International Sustainability Application and Research Centre

[3] Environmental Policy

[4] Natural Resource Use and Zero Waste Policy

[5] World Water Day Protecting Water Resources

[6] Istinye Post Water Resources and Conservation

[7] Handwashing Education for Preschool Children

[8] TTO Announcement of the Water4All 2024 Joint Call

[9] AI in Wastewater Management Scientific Reports 2025

[10] The Role of Higher Education Institutions on the Path to Sustainable Development Book Announcement

[11] Clean Water Water Resources and Responsible Water Consumption Chapter Publication Record

[12] TÜBİTAK 2209 Student Project List 2024/1 and 2025/1

Images are drawn from the University's institutional images and the relevant news items.