

IZMIR INSTITUTE OF TECHNOLOGY
WATER MANAGEMENT DIRECTIVE

SECTION ONE

Purpose, Scope, Basis, and Definitions

Purpose

ARTICLE 1- (1) The purpose of this Directive is to regulate the principles regarding the sustainable management of surface water, groundwater, rainwater, and greywater, as well as alternative sources used for various activities within the responsibility and authority of the Rectorate of IZTECH. It also aims to ensure that the resulting wastewater is discharged without posing risks to human and environmental health.

Scope

ARTICLE 2- (1) This Directive covers the following aspects throughout the IZTECH campus:

- a) Formulation of policies and programs to protect surface and groundwater resources on campus,
 - b) Encouraging users to minimize water consumption within buildings and act responsibly,
 - c) Conducting studies on rainwater harvesting in streams within campus boundaries,
 - ç) Conducting studies on rainwater harvesting from buildings within campus boundaries,
 - d) Establishing legal, administrative, and technical principles for the collection, treatment, and reuse of greywater in suitable buildings, as well as the development of policies and programs in this context,
 - e) Effective and proper use of reclaimed wastewater within the campus, ensuring that these resources do not pose health or environmental risks,
 - f) Using nature-based solutions (e.g., rain gardens, bioswales, infiltration units) to recharge groundwater by collecting rainwater flowing from impermeable surfaces such as roads and parking areas and storing rainwater in underground tanks by making parking areas permeable to create an alternative water source,
 - g) Harvesting rainwater from rooftops, storing it, and using it as an alternative source for watering open areas,
 - ğ) Watering plants and trees in open areas during the evening to prevent water loss, using drip irrigation instead of flood irrigation, and planting native species that require no irrigation (xeriscaping), while avoiding the use of artificial turf,
- and includes the principles, regulations, and provisions for their implementation.

Basis

ARTICLE 3- (1) This Directive is based on:

The "Regulation on Rainwater Collection, Storage, and Discharge Systems" published in the Official Gazette dated June 23, 2017, No. 30105,

The "Regulation Amending the Regulation on Planned Areas Development" published in the Official Gazette dated January 23, 2021, No. 31373,

The "Regulation on Management of Bathing Water Quality" published in the Official Gazette dated September 25, 2019, No. 30899,

The "Regulation on Wastewater Collection and Disposal Systems" published in the Official Gazette dated January 6, 2017, No. 29940,

The Special Expert Committee Report on Water Resources Management and Security as part of the 11th Development Plan covering 2019-2023 by the Ministry of Development,

The National Water Plan covering 2019-2023 by the Ministry of Agriculture and Forestry.

Definitions

ARTICLE 4- (1) In this Directive, the following terms refer to:

Institute: Izmir Institute of Technology,

a) Water Management Commission (WMC): The commission established to carry out the tasks specified in the Directive,

b) Units: Faculties, Application and Research Centers, and other units of the Institute,

c) Unit Water Management Officer: The administrative manager responsible for water management in the respective unit,

ç) Greywater: Wastewater from sinks, showers, and bathtubs, excluding toilet wastewater,

d) Rainwater: Rainwater or melted snow collected from rooftops or surface runoff,

e) Wastewater: Water polluted or partially/completely altered in its properties as a result of domestic, industrial, and other uses,

f) Treated Wastewater: Wastewater treated using advanced treatment technologies.

SECTION TWO

General Principles, Implementation Principles, Management Units, Duties, and Responsibilities

General Principles

ARTICLE 5- (1) Water used within the Institute's area of responsibility and authority (groundwater, mains water, greywater, rainwater, wastewater, treated wastewater) is managed according to the following principles:

a) Determining and recording the amount of water used by units, and minimizing water use,

b) Reducing water loss and leakage within the campus,

c) Effective and proper use of treated wastewater, minimizing any negative impact on human health and the environment,

ç) Monitoring the water quality of campus fountains regularly,

d) Treating greywater and rainwater in a way that minimizes possible negative impacts on human health and the environment, and determining the amount treated/used,

e) Drainage of wastewater other than recoverable water such as greywater through wastewater collection channels without causing harm to human health and the environment is essential.

Implementation Principles

ARTICLE 6- (1) The Water Management Directive is implemented under the coordination of the IZTECH Water Management Commission. Personnel assigned by the Rectorate/Deanery/Directorate or administration carry out related tasks.

Management Units

ARTICLE 7- (1) Management Units are defined as follows:

- a) Water Management Commission: The commission is composed of at least seven (7) members, including four members appointed by the Rector from the Faculty of Engineering (2), Faculty of Science (1), and Faculty of Architecture (1), as well as representatives from the Construction and Technical Works Department, Administrative and Financial Affairs Department, and the Secretary-General. The term of office for commission members is three (3) years. Members whose terms expire may be reappointed, or they may be removed from office by the Rector before the end of their term by following the appointment procedure.
- b) Chairman of the Water Management Commission: Appointed by the Rector from among the members of the Water Management Commission.
- c) Unit Water Management Officer: Defined as the secretary of the Faculty of Science, Faculty of Engineering, Faculty of Architecture, Education Institute, and Integrated Research Centers.

Duties, and Responsibilities

Water Management Commission

ARTICLE 8- (1) The Water Management Commission is responsible to the Rector for the coordination of unit activities and the effective implementation of the Directive, concerning the sustainable management of all water used within the boundaries of the IZTECH campus and the collection and disposal of wastewater generated within the campus without harming human health and the environment. The commission carries out this responsibility under the authority granted by the Rectorate. The duties and responsibilities of the commission are as follows:

- a) Identifying challenges in the implementation of the Directive, producing solutions, and determining the Implementation Principles of this Directive,
- b) Reviewing and updating the Directive in cases of changes to the legislation specified in Article 3 or as necessary,
- c) Organizing training and awareness meetings for units without undergraduate/graduate education (e.g., kitchens, pools, sports facilities),
- ç) Providing information, technical support, and consultancy services to the university's senior management and units on water management when necessary,
- d) Evaluating/analyzing data collected by the representative of the Construction and Technical Works Department or data submitted by the units (e.g., mains water, harvested rainwater, greywater quantity and quality) every three (3) months,
- e) Monitoring, evaluating, and preparing a report on water consumption and water recovery amounts tracked and reported by the Construction and Technical Works Department or units, and submitting the evaluation results annually to the Rectorate,
- f) Conducting studies for collecting, treating, and reusing rainwater from rooftops in suitable buildings based on prioritization,
- g) Conducting studies for collecting rainwater from suitable streams within the campus based on prioritization.

Chairman of the Water Management Commission

ARTICLE 9- (1) The duties and responsibilities of the Chairman of the Water Management Commission are as follows:

- a) Representing the WMC,
- b) Organizing the WMC's activities,
- c) Ensuring the regular and effective coordination of academic and administrative staff during the water management process.

Unit Water Management Officers

ARTICLE 10- (1) The duties and responsibilities of the Unit Water Management Officer are as follows:

- a) Ensuring the functional implementation of the Water Management Directive within their respective units,
- b) Carrying out measurement, monitoring, and control processes related to water within the units,
- c) Taking necessary measures to minimize water consumption/loss in the units and ensuring that these measures for sustainable water management are announced within the unit,
- ç) Monitoring the operation of greywater systems in the units, if available, taking samples, submitting the samples to an appropriate laboratory, and following up on the measurement results,
- d) Presenting all water consumption data and, if available, water recovery data obtained from collected data to the WMC every three (3) months.

Decision-Making Process of the Water Management Commission

ARTICLE 11- (1) The Commission convenes with an absolute majority of its members and makes decisions with a majority of the members present. The Commission holds its regular meetings every six (6) months and may convene extraordinarily upon the call of the chairman. Expanded meetings with the participation of unit representatives may also be organized.

SECTION THREE Enforcement and Execution

Enforcement

ARTICLE 12- (1) This Directive shall enter into force upon approval by the Senate of the Institute.

Execution

ARTICLE 13- (1) The Rector shall execute the provisions of this Directive.