

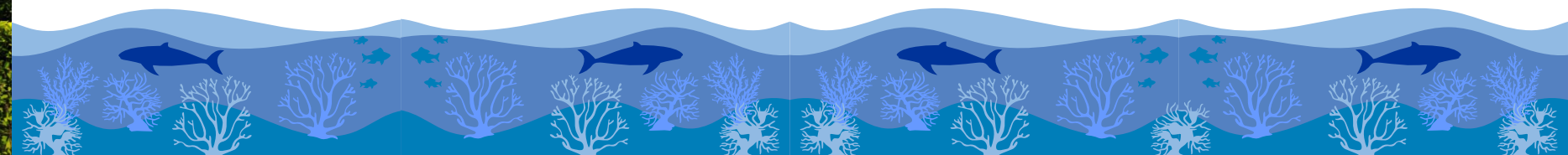


Sustainability Report 2022-23

(Goal - 6)



Sustainable Development Goals





CLEAN WATER AND SANITATION

Ensure availability and sustainable management of water and sanitation for all.

Introduction to SDG – 6

Galgotias University actively promotes SDG 6 by integrating water conservation and sanitation initiatives into academics, campus operations, and community outreach.

The university offers specialized courses and research opportunities focused on sustainable water management, wastewater treatment, and innovative sanitation solutions, fostering a culture of environmental responsibility.

On campus, measures such as rainwater harvesting, wastewater recycling, and low-flow fixtures reduce water consumption and minimize environmental impact.

Beyond campus, the university collaborates with local communities and organizations to spread awareness about water conservation and responsible usage. Students engage in research projects, advocacy campaigns, and community-driven initiatives to address water challenges.

Through these efforts, Galgotias University is committed to ensuring access to clean water, improving sanitation standards, and promoting sustainable practices that safeguard this essential resource for future generations.

G-SCALE Galgotias Student Centered Active Learning Ecosystem.
No More Benches, Only Benchmarks.

World Class Campus Infrastructure
Active Learning Ecosystem

Water Conservation and Recycling Policy
Plastic Reduction and Waste Management Policy
Sustainable Aquatic Research Policy
Marine Awareness and Education Policy
Green Campus and Eco-friendly Infrastructure Policy



STUDY SUSTAINABILITY

Programs Offered –
Doctor of Philosophy (Ph.D.) in Environmental Sciences
M.Sc. in Sustainability



Courses Offered –

Soil and Water Conservation Engineering (AIUA203B),
Soil, Water and Air Pollution (Soil 508),
Water Supply Treatment (G1UA302T),
Environment Impact Analysis (G1UB120T),
Environment Monitoring Analysis (G1U301T)

Outcome-Based Approach to Water Sustainability

Galgotias University adopts an outcome-based approach to water conservation and sanitation, ensuring measurable impact through strategic initiatives.

By integrating real-time water monitoring systems, the university optimizes water usage across campus, leading to significant reductions in wastage. Awareness programs and workshops empower students and faculty with knowledge on sustainable water practices, fostering long-term behavioral change.

Infrastructure advancements, such as rainwater harvesting and wastewater recycling, enhance water efficiency while supporting environmental sustainability.

Collaborations with industry experts and community organizations drive research on innovative water management solutions, translating knowledge into real-world applications. Through these targeted actions, Galgotias University not only minimizes its ecological footprint but also cultivates a culture of responsibility, aligning with SDG 6.

The university's structured approach ensures that every initiative leads to tangible outcomes, reinforcing its role as a leader in water sustainability within higher education.

World Water Day Celebration

The Green Environment Club, Department of Applied Sciences, Galgotias College of Engineering & Technology, celebrated World Water Day under the theme "Accelerating the Change to Solve the Water and Sanitation Crisis."

This initiative emphasized the urgent need for collective action to address global water challenges. To mark the occasion, the club, led by Coordinator, organized an engaging online quiz to raise awareness about water conservation and sustainable practices.

Approximately 100 participants took part, showcasing their knowledge and commitment to water sustainability. The event underscored how water cycle disruptions impact key global issues, including health, education, and economic development. As part of the 2030 Agenda for Sustainable Development, the celebration reinforced the necessity of ensuring safe water and sanitation for all.

Through such initiatives, the Green Environment Club continues to promote environmental responsibility and sustainable water management.

Soil Testing & Hands-on Training for Farmers

The School of Agriculture at Galgotias University is committed to empowering local farmers through soil testing and hands-on training.

Equipped with advanced laboratories, the university provides essential services such as soil analysis, disease diagnosis, and crop assessment, helping farmers adopt sustainable and scientific farming practices.

With greenhouse facilities, farmers can experiment with controlled environments, test diverse crops, and extend growing seasons, ultimately enhancing crop yields and agricultural diversity. Regular workshops, training sessions, and field days are organized to educate farmers on soil conservation, pest management, crop rotation, and sustainable agriculture.

These initiatives bridge the gap between academic research and practical farming, ensuring that local farmers benefit from cutting-edge agricultural advancements. By promoting scientific techniques and sustainable practices, Galgotias University plays a vital role in enhancing productivity, resource efficiency, and environmental stewardship in the agricultural sector.



Soil testing/Hands on Trainings for farmers of Nearby Villages
School of Agriculture Lab

Free Drinking Water Facilities on Campus

Galgotias University ensures free drinking water access for students, staff, and visitors through strategically placed water taps across the campus.

These facilities are regularly maintained to uphold cleanliness, hygiene, and accessibility, reinforcing the university's commitment to health, hydration, and sustainability.

By providing safe and clean drinking water, the university promotes environmental responsibility by reducing the need for bottled water, minimizing plastic waste.

This initiative reflects Galgotias University's dedication to student well-being and aligns with global sustainability goals, ensuring that everyone on campus has access to fresh, hygienic, and readily available drinking water at all times.



Drought-Tolerant Landscapes on Campus

Galgotias University has embraced drought-tolerant landscaping to

promote sustainability and water conservation. Native and drought-resistant plants, including succulents, ornamental grasses, and xerophytes, replace water-intensive species, enhancing biodiversity and reducing soil erosion.

Mulching and soil amendments help retain moisture and improve soil health, while drip irrigation systems ensure efficient water use. Additionally, rainwater harvesting supports irrigation needs, minimizing reliance on potable water.

This eco-friendly initiative not only lowers maintenance costs but also transforms barren areas into green, sustainable spaces, reinforcing the university's commitment to environmental stewardship and responsible resource management.

Rainwater Harvesting System (RWHS)

Galgotias University has implemented an advanced rainwater harvesting (RWH) system to optimize water usage, reduce dependence on external sources, and promote environmental sustainability.

The system captures rainwater for non-potable purposes such as irrigation, cooling, and toilet flushing, while also replenishing the groundwater table to ensure long-term water sustainability.

The collection system includes rooftop and surface collection, where rainwater is gathered via gutters and downspouts and directed into storage tanks. Advanced filtration units ensure water quality before use. Additionally, recharge pits and permeable surfaces facilitate groundwater replenishment.

This initiative not only reduces freshwater dependency but also fosters an eco-conscious culture among students and staff. Integrated into the university's sustainability framework, the RWH system enhances resource efficiency and promotes responsible water management. Through continuous innovation and awareness programs, Galgotias University sets a benchmark for sustainable water conservation in higher education.



Sources of Water at Galgotias University

Sustainable Utilization of Water and Wastewater

- Rainwater Harvesting
- Ground Water Recharge
- Water Treatment Plant
- Drinking Water RO Treatment Plant
- On Campus Irrigation

We are protecting our vital resources through

- Education and Research
- Campus Sustainability
- Community Engagement
- Policy on Water ReUse policy

