CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE | DELHI NCR | PUNE

6 SDG
CLEAN WATER AND SANITATION

ANNUAL REPORT

2024-25

Protect Water, Preserve Life



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Cleanliness Drive

Date: 5 October, 2024
Venue: Delhi NCR Campus
No. of participants: 30

The Department of Economics, Political Science and Sociology, in collaboration with the National Cadet Corps (NCC) and the SDG Cell, organised a Cleanliness Drive at Mariam Nagar, Ghaziabad. The activity was conducted to mark Gandhi Jayanti and to promote Sustainable Development Goal 6 (Clean Water and Sanitation), aiming to instil civic responsibility and encourage community hygiene. The drive had 30 participants, including NCC cadets and 10 SDG Cell student volunteers, who assembled after fall-in at 05:40 hrs. Divided into four groups, participants were assigned different areas of the locality. They spent an hour picking up litter, sweeping streets and drains, and spreading awareness among residents about proper waste disposal and sanitation practices. The event concluded with a group photograph alongside Campus Administration Rev. Fr. Peter M V, followed by breakfast for participants. The drive had a visible impact by improving the cleanliness of Mariam Nagar's streets and public spaces, raising community awareness about hygiene, and showcasing strong teamwork between the NCC and the SDG Cell in advancing sustainable, socially responsible practices.







Christites for Climate Action (CCA)

Venue: Bangalore, Central Campus
No. of participants: 550+

The activity encompasses the ongoing work of Christites for Climate Action (CCA), a student-led movement at CHRIST (Deemed to be University), Bangalore, founded by Vice Chancellor Rev. Fr. Dr Jose CC, comprising initiatives like plogging treks, tree plantation drives, seed distribution campaigns, awareness stalls, and a creative flash mob. The activities were undertaken to address the urgent global threat of climate change, aligning with UN SDG 13 (Climate Action) alongside SDGs 6 and others, to foster eco-conscious lifestyles among students and extend environmental responsibility to broader society. These were carried out through hands-on grassroots efforts: volunteers cleaned trails while hiking, planted trees to boost biodiversity, distributed over 100 seed packets at Lalbagh, ran awareness stalls on carbon footprints and menstrual sustainability, and staged a Garba-based flash mob promoting sustainable menstrual products. The impact has been substantial and multi-layered—raising ecological awareness across campus and society, building a passionate community of student volunteers and leaders, encouraging tangible eco-friendly habits, and, as testimonials reveal, meaningfully shaping participants' personal growth, leadership skills, and lifelong commitment to environmental stewardship and collective climate action.





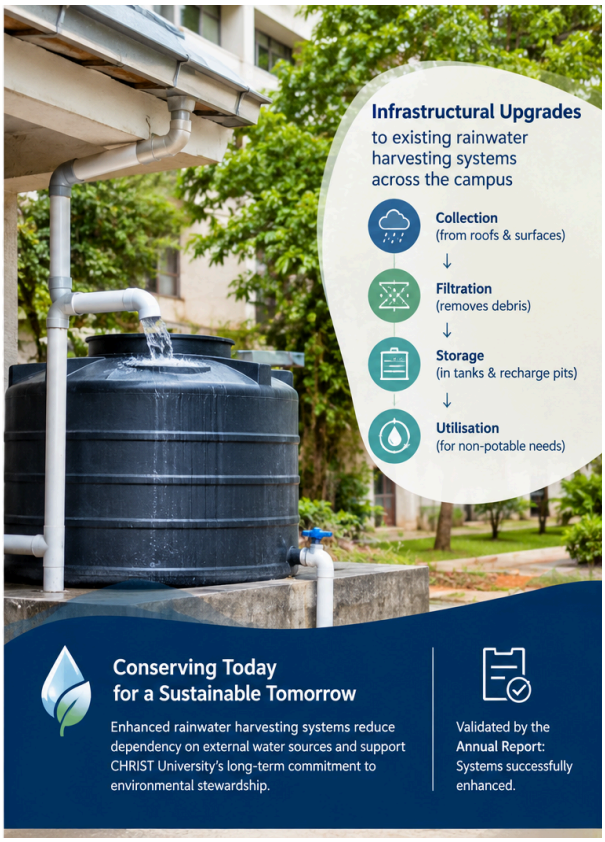


Enhancement of Rainwater Harvesting Systems

Venue: Bangalore, Central Campus

During the 2024–25 academic year, the University Infrastructure/Facilities division undertook the "Enhancement of Rainwater Harvesting Systems" initiative at Bangalore Central Campus, benefiting students, faculty, staff, and the broader campus community. The activity was undertaken to strengthen water conservation efforts and improve the institution's capacity to capture and utilise rainwater effectively, addressing the growing need for sustainable water management amid rising consumption demands and environmental concerns. It was carried out through infrastructural upgrades to existing rainwater harvesting systems across the campus, falling under the broader theme of water usage, care, and conservation, reflecting a targeted institutional effort to enhance water sustainability infrastructure. The impact of this initiative is significant, as confirmed by the Annual Report, which validates that the rainwater harvesting systems have been successfully enhanced, thereby improving the campus's ability to conserve and responsibly manage water resources. This upgrade not only reduces dependency on external water sources but also reinforces CHRIST University's long-term commitment to environmental stewardship, ensuring that water conservation remains an integral part of campus infrastructure planning and contributing meaningfully to the institution's overall sustainability goals.





Rainwater Harvesting – Birds Park

Venue: Bangalore Yeshwanthpur Campus

During the 2024–25 academic year, the Campus Facilities division implemented a "Rainwater Harvesting – Birds Park" initiative at the Bangalore Yeshwanthpur Campus, benefiting the wider campus community. The activity was undertaken as part of the institution's broader water conservation and sustainable water management strategy, aiming to reduce reliance on external water sources and promote responsible resource utilisation across campus operations. It was carried out by developing a dedicated rainwater harvesting structure within the Birds Park area of the Yeshwanthpur Campus, designed with a substantial storage capacity to collect and store rainwater for future use effectively. The impact of this initiative is considerable: the system can now store 5 lakh litres, significantly enhancing the campus's water conservation infrastructure. This large-scale rainwater harvesting capacity directly supports sustainable water management by reducing dependency on municipal or groundwater sources, mitigating the effects of water scarcity, and reinforcing ecological balance within the campus environment. Overall, the initiative reflects CHRIST University's proactive approach to integrating sustainable infrastructure into its campus facilities, contributing meaningfully to long-term water security and environmental sustainability goals.



Rainwater Harvesting – Ground Area

Venue: Bangalore Yeshwanthpur Campus

During the 2024–25 academic year, the Campus Facilities division implemented the "Rainwater Harvesting – Ground Area" initiative at the Bangalore Yeshwanthpur Campus, benefiting the wider campus community. The activity was undertaken as part of the institution's ongoing commitment to water conservation and sustainable water management, aiming to maximise rainwater collection and utilisation to reduce dependence on conventional water sources. It was carried out by constructing a large-scale rainwater harvesting structure in the ground area of the Yeshwanthpur Campus, engineered with a substantial storage capacity to capture significant volumes of rainwater during monsoon periods for subsequent use across campus operations. The impact of this initiative is considerable, with the system achieving an impressive capacity of 25 lakh litres, making it one of the largest water conservation infrastructure projects on campus. This significantly enhanced storage capacity strengthens the university's resilience to water scarcity, reduces strain on municipal and groundwater resources, and supports sustainable long-term water management practices. Overall, this initiative underscores CHRIST University's strong institutional focus on environmental sustainability, demonstrating how strategic infrastructure investment can deliver substantial, measurable benefits toward campus-wide water conservation objectives.



Namma Neeru Marathon – Water Conservation Campaign

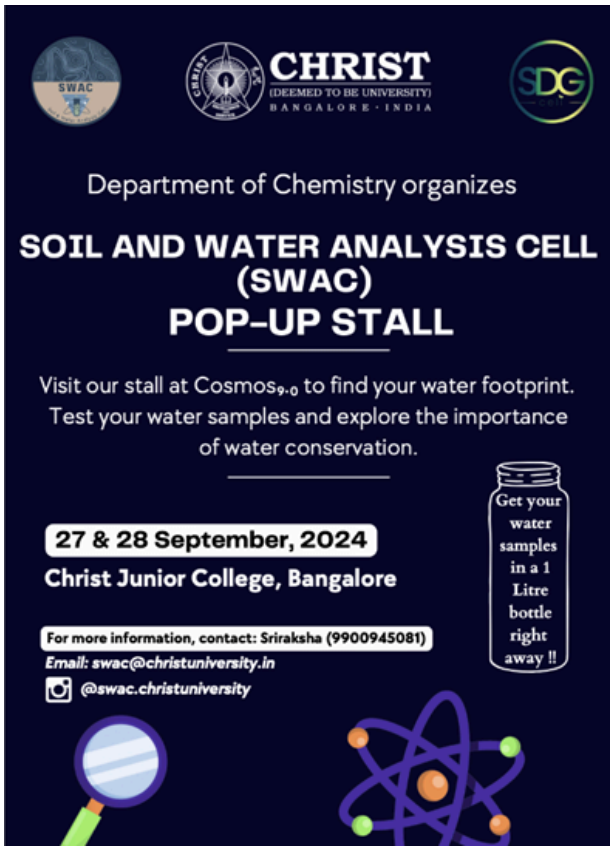
In January 2025, the Office of Alumni Engagement, in collaboration with the University community, organised "Namma Neeru Marathon – Water Conservation Campaign" in Bengaluru, benefiting students, faculty, alumni, and the general public. The activity was undertaken to promote conscious water use and raise awareness of water conservation within the wider community, leveraging the reach and engagement of a marathon event to communicate an important environmental message beyond the university campus. It was carried out as a community-oriented marathon campaign, generously sponsored by alumni funds totalling ₹55,000, with active participation from a diverse group, including students, faculty, alumni, and members of the public, thereby fostering a strong sense of collective responsibility for water conservation. The impact of this initiative is noteworthy, as it successfully mobilised ₹55,000 in alumni-sponsored funding and achieved broad-based participation across multiple stakeholder groups, extending the university's sustainability outreach well into the surrounding community. By combining fitness, public engagement, and environmental advocacy, the campaign effectively amplified awareness around responsible water usage, reinforcing CHRIST University's role not only as an academic institution but also as a proactive community leader in driving meaningful, large-scale environmental consciousness initiatives.



Soil and Water Analysis Cell (SWAC)

During the 2024–25 academic year, the Department of Chemistry, in collaboration with the Department of Life Sciences, established the "Soil and Water Analysis Cell (SWAC)," operating across Bengaluru and surrounding areas, benefiting local communities and agricultural stakeholders. The activity was undertaken to address the critical need for reliable water quality monitoring and soil fertility assessment, providing essential scientific support to local communities and agricultural stakeholders who depend on accurate environmental data for informed decisions. It was carried out through active fieldwork conducted by faculty and researchers from both departments, who assessed key soil fertility and water-quality parameters directly within Bengaluru and its surrounding regions, combining interdisciplinary expertise in chemistry and life sciences to deliver comprehensive environmental analysis. The impact of this initiative is significant, as it has established an ongoing platform for water quality monitoring and community support, directly benefiting local communities and agricultural stakeholders by providing scientifically grounded insights into soil and water conditions. This interdisciplinary collaboration not only strengthens the university's community engagement and outreach efforts but also exemplifies how academic expertise can translate into practical, real-world solutions that support agricultural sustainability and safeguard water resources for surrounding communities.





Water Quality Awareness & Testing Stall – COSMOS Fest

Date: 27 September, 2024
Venue: Christ Junior College, Central Campus

On 27–28 September 2024, the Soil and Water Analysis Cell organised a "Water Quality Awareness & Testing Stall" as part of COSMOS Fest at Christ Junior College, Central Campus, benefiting students and the wider community through open participation. The activity was undertaken to educate the community about water quality and promote responsible water use, using a hands-on, interactive testing-stall format to make scientific concepts accessible and engaging for a diverse festival audience. It was carried out by setting up a dedicated testing stall where approximately 80 water samples were tested for key parameters, including pH, TDS (Total Dissolved Solids), hardness, and carbonate/bicarbonate content, with immediate results provided to participants, allowing for real-time learning and engagement. The impact of this initiative was substantial, as it directly facilitated community education on water quality through practical demonstrations and reached a wide audience through open participation at a well-attended festival. By testing a significant number of samples and delivering instant, understandable results, the stall effectively raised awareness about water quality issues and responsible water use, demonstrating how experiential, science-based outreach can meaningfully influence public understanding and encourage more conscientious water consumption practices within the community.





Water Footprinting Awareness

Date: 27 September, 2024
Venue: Bangalore, Central Campus

The Soil and Water Analysis Cell organised a "Water Footprinting Awareness" activity at Central Campus, benefiting students. The activity was undertaken to promote conscious water usage among students by raising awareness about water quality, water footprinting, and broader water conservation principles, helping participants understand the environmental impact of their personal and collective water consumption. It was carried out as an awareness-focused session or campaign, engaging students directly on the concepts of water quality assessment and water footprint calculation, thereby connecting theoretical environmental knowledge with practical, everyday water-use behaviour. The impact of this initiative lies in its contribution to building student awareness around water quality and footprinting, equipping them with a better understanding of how individual actions influence water resources and sustainability outcomes. By fostering this awareness, the activity encourages students to adopt more conscious and responsible water usage habits, reinforcing the university's ongoing efforts to cultivate an environmentally aware student community. This initiative complements broader campus sustainability programs, ensuring that water conservation remains a consistent and reinforced theme across student engagement activities at CHRIST University.





Resin Exchange Demonstration for Water Hardness Reduction

Date: 27 September, 2024
Venue: Bangalore, Central Campus

On 27–28 September 2024, the Department of Chemistry, in collaboration with the Soil and Water Analysis Cell (SWAC), conducted a "Resin Exchange Demonstration for Water Hardness Reduction" at Central Campus, benefiting students. The activity was undertaken to provide practical water treatment and water-quality education, helping students gain a deeper, hands-on understanding of water hardness issues and the scientific methods for addressing them. It was carried out through a live demonstration of ion-exchange/resin technology, showcasing how resin-based systems effectively reduce water hardness, thereby bridging classroom theory and real-world application in a visually engaging and interactive format. The impact of this initiative is meaningful, as it directly contributed to water treatment and water-quality education among students, enhancing their technical knowledge of ion-exchange processes and their relevance to everyday water management challenges. By demonstrating a tangible, functional solution to water hardness, the activity strengthened students' scientific literacy and appreciation for applied chemistry in sustainability contexts, further reinforcing CHRIST University's commitment to experiential learning and its broader mission of promoting water quality awareness and conservation across the academic community.



ECOFLOW AQUBBOT – Unmanned Lake-Cleaning Robot

During the 2024–25 academic year, the School of Engineering & Technology, through its Mechanical & Automobile Engineering department, developed the "ECOFLOW AQUBBOT – Unmanned Lake-Cleaning Robot" for the water bodies at the Kengeri Campus, benefiting students, researchers, and the wider society. The activity was undertaken to address the pressing issue of water pollution and protect vulnerable water ecosystems, leveraging engineering innovation to tackle environmental challenges through automated, technology-driven solutions rather than relying solely on manual intervention. It was carried out through the design and development of an unmanned robotic system specifically engineered for lake cleaning, supported by KSCST (Karnataka State Council for Science and Technology) funding and technical backing, reflecting a strong foundation of research-driven innovation and external validation of the project's scientific merit. The impact of this initiative is significant, as the robot directly helps prevent water pollution and protect aquatic ecosystems, offering a scalable, technology-based solution for maintaining lake health. By engaging students and researchers in developing this innovative tool, the project not only advances practical environmental conservation but also strengthens CHRIST University's research capabilities, positioning the institution as a proactive contributor to sustainable technological solutions for the preservation of water ecosystems.

Lake Cleaning Robot – Innovation / Project

Date: 28 September, 2024

The Department of Mechanical & Automobile Engineering at CHRIST University undertook the "Lake Cleaning Robot – Innovation" project, benefiting students and researchers. The activity was undertaken to address the growing problem of polluted water bodies innovatively, aligning with the institution's commitment to Sustainable Development Goal 6 (Clean Water and Sanitation) by developing a technology-driven solution to a pressing environmental challenge. It was carried out through the design and formal listing of the project as the "Lake Cleaning Robot," supported by KSCST (Karnataka State Council for Science and Technology), reflecting a structured, research-backed approach to innovation, corresponding to the earlier-developed ECOFLOW AQUBBOT initiative. The impact of this initiative is notable, as the project is a documented innovation targeting polluted water bodies, reinforcing the university's growing portfolio of applied engineering solutions for environmental sustainability. By formally recognising and supporting this innovation through KSCST backing, the project not only validates its scientific and technical credibility but also strengthens CHRIST University's contribution toward SDG 6, demonstrating how student- and researcher-led innovation can translate into practical tools for safeguarding water ecosystems and combating pollution.

Climate Change & Water Accessibility in Sundarbans

During the 2024–25 period, the Department of Economics/Research undertook a research initiative titled "Climate Change & Water Accessibility in Sundarbans," focusing on the Sundarbans region, benefiting local communities and research stakeholders. The activity was undertaken to investigate the critical intersection of climate change, water security, and accessibility challenges faced by vulnerable communities in the ecologically sensitive Sundarbans region, aiming to generate evidence-based insights that could inform climate resilience and water management strategies. It was carried out as a formally funded research project, supported by ₹8 lakh from the ICSSR (Indian Council of Social Science Research), enabling rigorous, in-depth academic investigation into the region's water accessibility issues amid ongoing climate change impacts. The impact of this initiative is substantial, as it represents a significant, externally validated research contribution focused on water accessibility, climate resilience, and water security, areas of growing global importance given the Sundarbans' heightened vulnerability to climate-induced environmental changes. By securing prestigious ICSSR funding, this research not only enhances CHRIST University's academic standing in climate and water security research but also has the potential to generate actionable policy insights that could directly benefit vulnerable communities in the Sundarbans facing climate-related water accessibility challenges.

QR-Code-Based Sanitation Management

During the 2024–25 academic year, the University Infrastructure/Facilities division implemented "QR-Code-Based Sanitation Management" at Bangalore Central Campus, benefiting the campus community. The activity was undertaken to enhance sanitation management and hygiene infrastructure across the campus, aiming to introduce a more efficient, technology-driven approach to monitoring and maintaining cleanliness standards in campus facilities. It was implemented by introducing a QR code-based system as part of broader campus infrastructure enhancement efforts, enabling streamlined tracking, reporting, and management of sanitation-related tasks and facility upkeep. The impact of this initiative is significant, as it directly strengthened sanitation management and hygiene infrastructure at Central Campus, reflecting a modernised, digitally-enabled approach to facility maintenance that improves accountability and responsiveness in addressing sanitation needs. By integrating QR code technology into everyday campus operations, this initiative enhances the university's hygiene standards and operational efficiency, demonstrating how simple yet innovative technological solutions can meaningfully improve infrastructure management and contribute to a cleaner, healthier campus environment for the entire community.

Community Sanitation Drives

During the 2024–25 academic year, the Centre for Social Action (CSA) organised "Community Sanitation Drives" across various community locations, benefiting marginalised and local communities. The activity was undertaken to improve sanitation and hygiene conditions among underserved populations, addressing critical gaps in basic infrastructure that disproportionately affect marginalised communities and contribute to broader public health outcomes. It was carried out through active collaboration among CSA and multiple external stakeholders, including NGOs, banks, and government agencies, whose combined support enabled the organisation and execution of large-scale sanitation drives in local communities, reflecting a multi-stakeholder approach to addressing sanitation challenges effectively. The impact of this initiative is substantial, as it directly facilitated sanitation and hygiene outreach to marginalised communities, extending essential services and awareness to populations that often lack adequate access to sanitation infrastructure. By leveraging strategic partnerships with NGOs, financial institutions, and government bodies, CSA amplified its reach and resources, demonstrating how collaborative, cross-sector engagement can drive meaningful, community-level improvements in sanitation and hygiene, ultimately enhancing public health and dignity for marginalised populations.



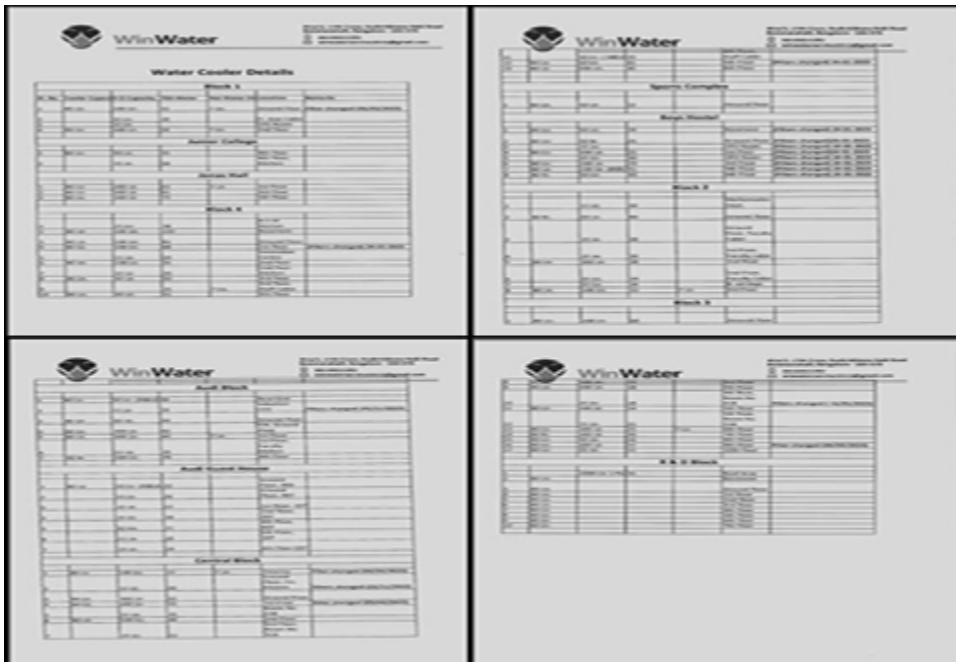
Wastewater Treatment Infrastructure

The Campus Facilities division maintains "Wastewater Treatment Infrastructure" across CHRIST University campuses, benefiting the wider campus community. The existing infrastructure was documented during an institutional sustainability assessment. The activity was undertaken to ensure effective wastewater treatment and prevent water pollution, addressing the critical need for responsible management of wastewater generated through everyday campus operations across multiple locations. It was carried out by establishing and maintaining dedicated wastewater treatment facilities, with their presence and functionality formally verified and documented in institutional audit reports as part of a broader sustainability assessment process, ensuring accountability and compliance with environmental standards. The impact of this infrastructure is significant, as it directly supports wastewater treatment and prevents water pollution across CHRIST University campuses, safeguarding surrounding ecosystems and water resources from contamination by untreated wastewater. By institutionalising and formally documenting these treatment facilities through audit verification, the university demonstrates a sustained, systemic commitment to environmental responsibility, ensuring that wastewater management remains an integral, well-monitored component of campus infrastructure that protects both public health and the natural environment surrounding its facilities.



Low-flow Water Fixtures

The Campus Facilities division maintains "Low-flow Water Fixtures" as an existing, operational infrastructure initiative at CHRIST University, benefiting the campus community, and its presence was verified during the reporting period. The activity was undertaken to minimise unnecessary water use across campus facilities, aligning with building standards that promote efficient water use and reduce overall waste in daily campus operations. It was carried out by installing and operating low-flow fittings, including low-flow cisterns and bath faucets, integrated into the university's plumbing infrastructure as a standard water-conservation measure across campus buildings. The impact of this initiative is well-documented, as evidenced by audit records confirming the presence and proper functioning of these low-flow fittings, demonstrating a consistent, institutionalised commitment to water conservation rather than an isolated or one-time effort. By embedding low-flow fixtures into everyday building standards, CHRIST University ensures sustained, long-term reductions in water consumption, directly supporting SDG 6 (Clean Water and Sanitation) and reinforcing the institution's broader strategy of integrating practical, infrastructure-level solutions into its sustainability framework to minimise water use across all campus operations.



Water Quality Monitoring of Campus Water Sources

As part of an institutional sustainability assessment, the Campus Facilities/Technical Audit team conducted "Water Quality Monitoring of Campus Water Sources" at CHRIST University, benefiting campus users. The activity was undertaken to ensure safe and reliable water management across the institution by systematically evaluating the quality of various on-campus water sources to safeguard the health and well-being of the university community. It was carried out through comprehensive testing of multiple water sources, including RO (Reverse Osmosis) water, tap water, borewell water, pond water, wastewater, and treated water, with assessments covering key parameters such as pH, TDS (Total Dissolved Solids), salinity, turbidity, and dissolved oxygen, ensuring a thorough and scientifically rigorous evaluation of water quality across the board. The impact of this initiative is substantial, contributing directly to SDG 6.3 (improving water quality by reducing pollution and increasing safe water reuse) by establishing robust water-quality monitoring and safe water management practices across campus operations. By systematically testing diverse water sources and key quality parameters, CHRIST University ensures continuous oversight of water safety, enabling early detection of potential contamination and reinforcing its institutional commitment to providing clean, safe, and sustainably managed water resources for its entire campus community.



Solar Water Heating

The Campus Facilities division maintains "Solar Water Heating" as an operational infrastructure initiative across CHRIST University campuses, benefiting campus residents and users. The activity was undertaken to promote efficient resource use and reduce dependence on conventional energy sources for water heating by integrating renewable energy solutions into the core infrastructure of campus facilities, thereby supporting long-term sustainability goals. It was carried out through the installation and continued operation of solar water heaters, formally documented as part of the university's sustainable campus infrastructure, ensuring that this renewable technology remains an integral, functioning component of everyday campus utilities rather than a standalone or experimental effort. The impact of this initiative is significant, directly contributing to SDG 6.4 (increasing water-use efficiency and ensuring sustainable water and energy management), as solar water heating indirectly supports both energy conservation and sustainable water management by reducing the electricity demand typically associated with conventional water heating systems. By embedding solar water heaters into standard campus infrastructure, CHRIST University demonstrates a practical, scalable approach to sustainable resource management, reinforcing its commitment to efficient energy use while simultaneously advancing broader institutional sustainability and environmental stewardship objectives across all its campuses.

SDG 6 in Teaching / Curriculum

During the 2024–25 academic year, multiple academic departments at CHRIST University integrated "SDG 6 in Teaching/Curriculum," benefiting students across various disciplines. The activity was undertaken to embed education for sustainable water management directly into the academic curriculum, ensuring that sustainability principles related to clean water and sanitation are not merely promoted through extracurricular initiatives but are formally institutionalised within students' core learning experiences. It was carried out through the deliberate design and alignment of courses and programmes with SDG 6, incorporating water- and environment-related subjects across multiple academic departments, thereby embedding sustainability education as a structured, curriculum-wide effort rather than an isolated or optional component. The impact of this initiative is substantial, directly contributing to SDG targets 6.4, 6.5, and 6.6 by fostering education for sustainable water management among students and equipping them with the critical knowledge and skills needed to address water-related challenges in their future academic and professional pursuits. By systematically integrating SDG 6 into teaching and curriculum design, CHRIST University ensures that sustainability consciousness is cultivated at a foundational academic level, producing graduates who are well-informed advocates and practitioners of sustainable water management across diverse fields of study.









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