



Kristu Jayanti (Deemed to be University): A Clean, Green and Smart Campus which focuses on Sustainable Development

Kristu Jayanti (Deemed to be University), formerly known as Kristu Jayanti College, believes in living in harmony with nature and giving back to the environment. The institution has a well-defined Sustainability Vision and Green Policy that focuses on energy management, waste management, water management, enhancement of green cover, and various green initiatives.

Kristu Jayanti University has been recognized as the **United Nations Academic Impact (UNAI) Hub for Goal 1 of the Sustainable Development Goals** for two consecutive terms (2018–2021 and 2021–2024). For the third term (2024–2027), the university has been recognized as the **UNAI Hub for Goal 2**, and it is the **only academic institution in Southeast Asia** to receive this recognition. In addition, under **SDG 10: Reduced Inequalities (Vice Chair for Teaching and Education)**, Kristu Jayanti University was appointed to this role for the 2021–2024 term and has again been selected for the 2025–2027 term. The university organizes several programs to inculcate environmental consciousness among students and faculty members and conducts a variety of environmental extension activities beyond the campus.

Rev. Dr. Augustine George, Vice Chancellor of Kristu Jayanti, actively encourages and promotes initiatives that support environmental conservation and sustainable development. Fr. Lijo P. Thomas, Pro Vice Chancellor, along with the members of the Management, supports and facilitates all green initiatives of the institution. There is active involvement and participation from the Management, Deans, Heads of Departments, Coordinators, teaching staff, and administrative staff in implementing green practices across the campus. Students are the pillars of strength who actively contribute to and support all the sustainability initiatives.

Energy Conservation and Sustainable Energy Management

The institution is committed to responsible energy management and the promotion of sustainable practices on campus. The primary electrical supply is supplemented by an on-site rooftop solar photovoltaic system that supports partial energy self-sufficiency. A grid-connected solar power plant comprising 200 solar photovoltaic panels with an installed capacity of approximately 50 kWp has been installed on the terrace of the main building. The solar energy generated is utilized for internal campus consumption, and surplus power is exported to the grid through a net-metering system, thereby reducing dependence on conventional energy sources.

The campus infrastructure is designed with eco-friendly architectural principles. Well-ventilated classrooms and buildings allow ample natural sunlight and cool air, minimizing the use of artificial lighting and mechanical ventilation during most parts of the year. Sustainable construction materials have been used, and energy-efficient practices are integrated into campus operations. Energy conservation measures include the widespread use of LED lighting, automated sensor-based lighting systems in corridors and common areas, and the gradual introduction of BLDC fans to reduce electricity consumption. Computer systems have been upgraded from CRT monitors to LED displays, and power management settings are enabled on computers and laboratory equipment. Faculty



members are provided with energy-efficient all-in-one computers. Air conditioning systems across the campus are operated with thermostat settings maintained between 24–26°C to ensure optimal energy efficiency. Additionally, timer controls are installed in seminar halls and offices to regulate operating hours and minimize unnecessary energy consumption. Biogas plant is installed on the campus to process kitchen waste from the canteen to generate clean fuel for cooking, promoting waste-to-energy practices.

The institution conducts periodic energy audits to monitor electricity consumption patterns and identify opportunities for further energy conservation. The findings of these audits help in identifying areas for improvement and in implementing energy-efficient practices across the campus. In addition, the institution actively promotes sustainability awareness among students through various initiatives. Student-led energy conservation campaigns are regularly organized to encourage responsible use of electricity and other resources. Sustainability awareness talks are also conducted to educate students and staff about environmental responsibility, energy conservation practices, and the importance of adopting sustainable lifestyles. Students actively participate in energy conservation initiatives through Environment Brigades, which promote responsible usage of lights, fans, and electronic devices. Courses on sustainable practices and climate mitigation, Sustainable gardening, and environmental science have been offered to undergraduate students. Dedicated monitoring policies and periodic reporting systems ensure effective implementation of energy conservation measures across the institution. These initiatives foster a culture of environmental consciousness and collective responsibility towards energy conservation within the campus community.

Waste Management

The institution adopts comprehensive and responsible waste management practices to reduce the amount of waste generated on campus and minimize its environmental impact. Systematic measures such as segregation, reuse, recycling, and composting are implemented across the campus. Waste management practices are followed in every building, ensuring that waste is properly sorted at the source. Color-coded bins are placed at various locations to facilitate the segregation of waste at the site. The segregated wet and dry waste is regularly weighed and analyzed to monitor waste generation patterns and to identify ways to minimize waste.

Biodegradable wet waste generated on campus is composted through vermicomposting units and other composting practices. Dry waste, including tree litter, is also recycled through vermicomposting, and the manure produced is used for gardening and landscaping within the campus. Excess manure is distributed to farmers in the Unnat Bharat Abhiyan (UBA) adopted villages. Students actively participate in training farmers to prepare vermicompost as part of extension and community outreach activities. In addition, the institution operates a biogas plant that utilizes kitchen waste from the canteen to produce clean fuel, thereby promoting waste-to-energy practices.

The institution has collaborated with the ITC Waste Out of Waste (WOW) project for recycling paper waste. On average, around 16 tons of paper waste have been recycled annually over the past seven years through this initiative. E-waste generated on campus is collected quarterly and disposed of



through authorized e-waste vendors, while plastic waste is also recycled through certified vendors to ensure environmentally safe disposal.

Liquid waste management is carried out through a 90 and a 130 KLD Sewage Treatment Plant installed on campus. The treated water is reused for gardening and flushing purposes, significantly reducing freshwater consumption. Kristu Jayanti has also been taken as a case study and video on "Sustainable Waste Management" by students under the mentorship of faculty who won the First prize at the India International Science Festival in December 2020. Cleaning products, grease, batteries, science lab materials, and other potentially hazardous products are disposed of properly. Biosafety guidelines are followed in the laboratories for the safe disposal of waste.

The institution has also banned single-use plastics on campus and limits the purchase of single-serve bottles and containers. Thermocol and plastic materials are prohibited in student exhibitions to promote environmentally responsible practices. Students are encouraged to use sustainable and eco-friendly alternatives while organizing exhibitions and events on campus. During food festivals and similar student-led activities, the use of biodegradable and sustainable serving materials such as leaf plates and natural packaging is actively promoted to minimize plastic waste and reduce environmental impact. Efforts are made to minimize food wastage by encouraging students to take only the quantity of food they can consume. Digital communication, email correspondence, and online reading are promoted to reduce paper usage, and printing is encouraged only when necessary. The Institutional Green Committee regularly monitors waste collection, conducts waste audits, and maintains records of waste disposal. Recycling initiatives and the use of recycled materials are actively promoted within the campus community.

Water Conservation

Kristu Jayanti University strives to conserve water and recycle water. The campus has many rainwater harvest tanks of capacity of 20 lakh litres, 24 lakh litres, 25 lakh litres and 21 lakhs litres which are installed in Humanities block, Administrative Block, Main Block and New Block respectively that serve as a secondary source of water. A surface water harvest tank near turf is also constructed with a 40000-litre capacity. Harvested rainwater is used to supply water in all taps and washrooms and contributes to 12-15% of total water usage. The water thus stored supplements the growing requirement of non-potable water in the campus. This system also serves as an opportunity for students to observe the practical implications of rainwater harvesting.

Institutions use collected rainwater for onsite watering needs/ laboratories/ washrooms. Sprinkler systems, drip irrigation, sensor-based taps, faucets with aerators and usage of recycled water for gardening have contributed much towards the conservation of water. IoT and cloud-based water meters have helped in analyzing water usage from different sources, help detect leaks and take necessary actions towards the management of water. There are 4 reverse osmosis plants: two of 250 litres and two of 500 litres capacity. 6000 litres of water are being purified every day, and pure drinking water is supplied to students who are advised not to use plastic bottled water.

There are dedicated staff for water maintenance and inspection of taps and sanitary fixtures on campus. Periodic mending and repairs of leaking taps and pipes are done. There are two levels of



flushing in toilets to reduce water wastage. We periodically organize water conservation workshops/educational lectures and programs/trainings for faculty and students on campus. Water budgeting and water auditing is done by the institution. We have installed low-flow faucets, automatic faucets, and/or faucet aerators/ low-flow shower heads/ low-flow toilets and urinals. Feedback collected from all campus buildings on water supplies, quantity, quality and conservation. The campus has adequate water pots/ potable water taps/water filling stations/ water dispensers that promote easy filling of reusable water bottles. Groundwater recharge has been done for maintaining water balance. Policy is formed for monitoring aspects of water conservation with dedicated staff and periodic reporting system is in place. Periodic checks of the water quality is done by the Department of Life Sciences and ensures safety of the drinking water.

Treated water from the Sewage Treatment Plant is reused for gardening, landscaping, and flushing purposes, thereby reducing the dependence on freshwater sources and promoting sustainable water management on campus. In addition, the institution actively promotes responsible water usage through awareness campaigns and student-led initiatives. These programs encourage the campus community to use water judiciously, avoid wastage, and adopt sustainable water conservation practices in their daily activities.

Green Campus Initiatives

The institution has established an Institutional Green Committee to oversee the implementation of sustainability practices aligned with the components of Swachhata, including Greenery, Water Management, Waste Management, Energy Management, Sanitation, and Hygiene. The committee consists of teaching staff, non-teaching staff, student representatives, and an external expert member, with designated teams and team leaders for each component. The committee conducts periodic reviews to monitor sustainability initiatives across the campus. In collaboration with the Centre for Environment Enrichment and Sustainability, the committee actively promotes environmental awareness through various initiatives such as energy conservation campaigns, water conservation drives, waste management programmes, plastic-free campaigns, cleanliness drives, environmental extension activities beyond the campus, eco-innovation challenges, e-waste collection drives, and eco-awards. Reports of these activities are regularly documented and shared through the institutional website and social media platforms. Feedback forms are circulated among the participating teams and stakeholders to gather inputs and implement policy improvements and strategic planning.

Departments encourage technological and social interventions in the areas of energy conservation, water management, and waste management through student-led projects and research initiatives. The institution also promotes plantation and greenery development in vacant spaces and around buildings on campus. The institution celebrates Van Mahotsav and Vriksha Raksha Festival through the Jayantian Extension Services to promote tree planting and environmental awareness among students. Plantation drives focus on fruit-bearing trees, indigenous plants, native species, and low water-consuming plants, thereby enhancing ecological sustainability.

The institution encourages green transportation practices to reduce vehicular pollution within the campus. To maintain environmental quality, the institution practices restricted automobile entry within the campus, promoting pedestrian-friendly pathways. Students and staff are motivated to use bicycles,



and electric vehicle charging stations have been installed on campus to support environmentally friendly transportation.

To assess and monitor environmental performance, the institution regularly conducts annual Energy Audits, Green Audits, and Environmental Audits through external agencies. Additionally, a project for calculating the Environmental Footprint of the campus has been proposed and initiated.

Organic waste generated on campus, including garden waste and dry leaves, is processed to produce compost and vermicompost, which are monitored by project students from the Department of Life Sciences. The biofertilizers produced in the Life Sciences laboratory, along with the compost and vermicompost generated on campus, are used for gardening and landscaping. As part of the Lab-to-Land programme, these biofertilizers are also supplied to local farmers.

The campus houses a plant nursery with dedicated staff responsible for plant protection, nursery maintenance, vermicomposting units, composting units, organic farming practices, medicinal plant gardens, and maintenance of campus water bodies. Currently, more than 60% of the campus area is covered with greenery, including lawns, trees, and native vegetation. A formal policy is in place to monitor and maintain campus greenery with dedicated staff and a periodic reporting system.

The campus is home to over 250 species of medicinal plants, along with numerous indigenous plant species. All trees and plants are scientifically labelled with student participation, and a comprehensive registry of campus floral biodiversity and the herbal garden has been prepared with the assistance of a taxonomist and uploaded to the institutional website. As an innovative initiative, the medicinal plants have been QR-coded, allowing users to access detailed plant information through digital scanning, a feature developed by students.

Over the past many years, the institution has avoided cutting mature trees and follows a strict policy for the protection and maintenance of existing green cover, including trees, shrubs, lawns, and hedges. Preference is given to native and locally suitable plant species for plantation and landscaping, and regular plantation drives and maintenance activities are carried out to strengthen the campus ecosystem.

The institution strictly follows a zero single-use plastic policy across campus facilities. Students and staff are encouraged to use steel lunch boxes and reusable steel water bottles instead of plastic alternatives. Several academic programmes offered by the institution include courses related to environmental studies and sustainability. Additionally, seed funding is provided for community-based projects focusing on environmental protection and sanitation.

The Centre for Environment Enrichment and Sustainability, along with various academic departments, regularly organizes programmes, campaigns, and commemorative events on important environmental days to foster environmental consciousness and sustainable practices among students and staff.

Environment Extension Activities

The institution actively conducts environmental extension activities in adopted villages and nearby government schools to promote awareness on Swachhata, energy conservation, water conservation, waste management, ecosystem conservation, pollution control, and biodiversity protection. These



outreach initiatives aim to encourage environmentally responsible behaviour among students and the local community.

Sapling plantation is a regular extension activity undertaken by the institution. Saplings are also distributed to guests of honour during various institutional programmes as a symbolic gesture to promote environmental sustainability. The initiative “Plant a Sapling on Your Birthday”, introduced by the institution, encourages students and staff to celebrate special occasions in an environmentally responsible manner.

To translate laboratory research into practical applications, the institution implements a Lab to Land Programme, where biofertilizers formulated in the Life Sciences laboratory are applied in nearby farmlands to enhance soil fertility and agricultural productivity.

As part of the pre-event activities for the International Trade Fair, students prepared seed balls to promote ecological restoration and raise environmental awareness. This activity created enthusiasm among students and encouraged them to adopt eco-friendly lifestyles, reinforcing the institution’s commitment to preserving the planet for a greener future.

At Kristu Jayanti University, several outreach activities are conducted every year to promote community welfare, environmental responsibility, and awareness of sustainable development. On National Youth Day, NCC cadets carried out a cleanliness drive by cleaning and maintaining the university surroundings. The National Service Scheme (NSS) organized outreach programmes for government school children focusing on stationery distribution and hygiene awareness. A Women Hygiene Awareness Programme was conducted at The Refuge Foundation to promote health and sanitation awareness among women. NSS volunteers also carried out a cleanliness drive at Siddhartha School, K. Narayanapura, Bengaluru, encouraging students and the local community to maintain clean and hygienic surroundings.

The UNSDG Hub of Kristu Jayanti University under the United Nations Academic Impact (UNAI) Academic Impact Hub for SDG-2 organized the intra-collegiate fest SDG UTSAV 2025 on 4 March 2025 to promote awareness and action towards the United Nations Sustainable Development Goals (SDGs). The university, also recognized as the Academic Impact Hub for SDG-10, conducted another intra-collegiate fest, SUSTAINOVA 2025, on 24 September 2025. Both events served as engaging platforms for students to showcase their creativity, knowledge, and commitment to sustainability while encouraging active participation in initiatives supporting global sustainable development.

The Kristu Jayanti University, through the Centre for Environment Enrichment and Sustainability (CEES), organized several environmental awareness and community outreach programmes to promote sustainable practices among students and the local community. On Global Recycling Day 2026, an awareness visit was conducted to a Government School at K. Narayanapura, Bengaluru, where students were educated on recycling and waste management. A paper bag making activity encouraged the use of eco-friendly alternatives to plastic. An Energy Awareness Quiz Competition and awareness drive was also organized on campus to promote energy conservation. The programme “Swacha Grama – Arogya Grama” was conducted at Marjenahalli village near Kolar to create awareness about sanitation, hygiene, and environmental health. The university also hosted “Back to Our Roots: Sustainable Flavors of India”, a food fest promoting traditional and sustainable food practices, along



with an Energy Conservation Awareness Drive on campus. As part of Swachhata Hi Seva 2025, CEES organized Swachhotsav cleanliness drives in areas near the campus and conducted a Swachhata pledge activity to encourage environmental responsibility among students and staff. These initiatives reflect the institution's commitment to sustainability and community engagement.

Quality Audit

The institution conducts annual Green Audits, Environmental Audits, and Energy Audits through external agencies to evaluate the effectiveness of sustainability practices on campus. These audits assess critical aspects such as energy management, water management, waste management, and environmental conservation practices.

Based on the recommendations provided in the audit reports, the institution implements corrective and improvement measures. These actions have contributed significantly to the continuous enhancement of green initiatives and the sustainable development of the campus.

Divyangjan-Friendly Campus

The institution is committed to creating an inclusive and accessible environment and is certified as a disabled access compliant campus. Several infrastructural and technological provisions have been established to ensure accessibility for Divyangjan (persons with disabilities).

Key facilities include:

- Accessible institutional website
- Ramps and lifts with Braille-enabled buttons for easy access to classrooms
- Disabled-friendly washrooms
- Tactile pathways for visually impaired individuals
- Display boards and clear signposts for navigation
- Wheelchair facilities available across campus blocks

The institution also provides assistive technologies, including screen-reading software, and distributes an information brochure detailing facilities available for Divyangjan. In addition, a sign language expert is available to provide training and support, ensuring effective communication and inclusion for individuals with hearing impairments.

Through these initiatives, the institution ensures that the campus remains accessible, inclusive, and supportive for all members of the academic community.

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